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OLSSON

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SURVEYOR:

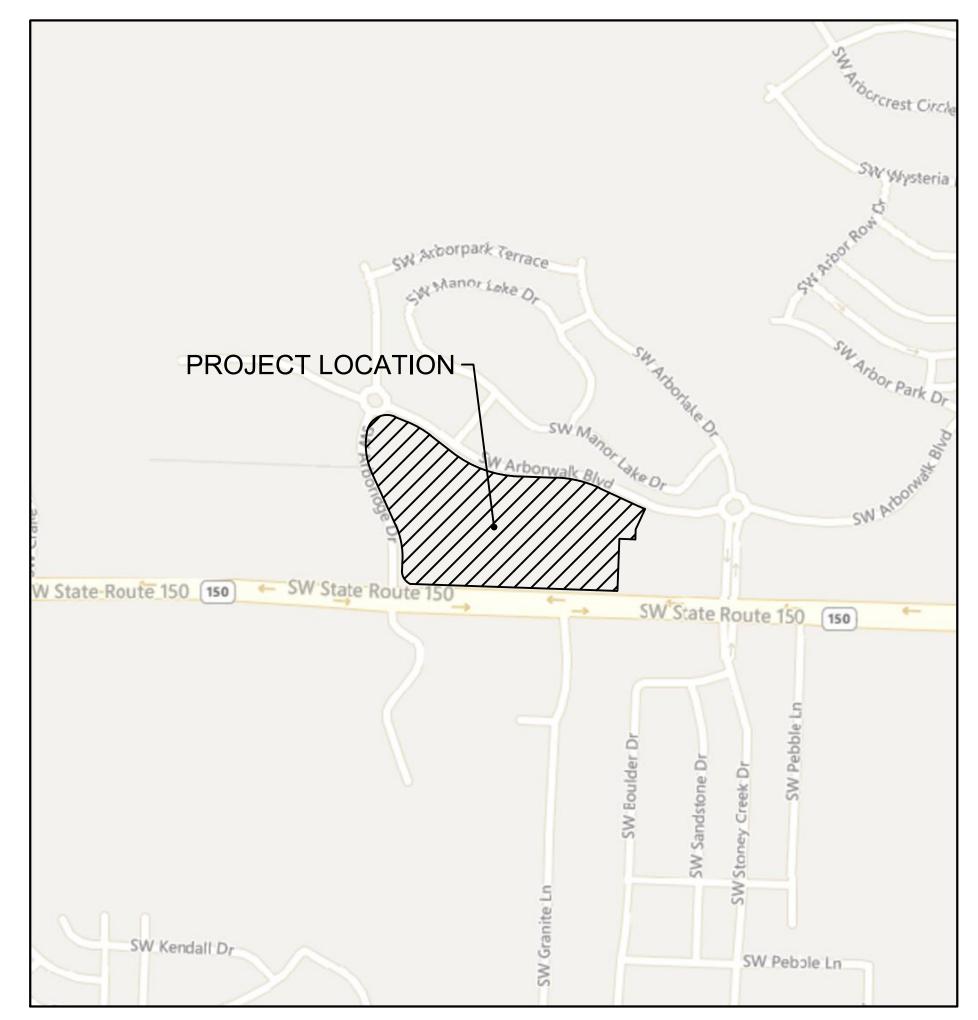
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LANDSCAPE ARCHITECT:

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RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

> 1501 SW ARBORWALK BLVD. LEE'S SUMMIT, MO



VICINITY MAP

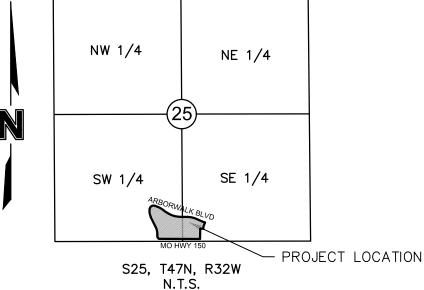
PROPERTY DESCRIPTION:

A TRACT OF LAND IN THE SOUTHWEST AND SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY MISSOURI BEING BOUNDED AND DESCRIBED BY OR UNDER THE DIRECT SUPERVISION OF JASON S ROUDEBUSH, P.L.S. 2002014092 AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER, ALSO BEING THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 87°53'43" EAST, 391.50 FEET TO THE SOUTHWEST CORNER OF AMENDED ARBORWALK - 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A, A MINOR SUBDIVISION IN SAID LEE'S SUMMIT RECORDED JANUARY 6, 2006 AS INSTRUMENT NUMBER 200610002453 IN BOOK 191 AT PAGE 53 IN JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 02°06'17" EAST, ON THE WESTERLY LINE OF SAID AMENDED ARBORWALK — 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6—A, 70.00 FEET; THENCE NORTH 02°05'48" EAST, ON SAID WESTERLY LINE, 7.33 FEET TO A POINT ON THE EXISTING NORTHERLY RIGHT—OF—WAY LINE OF MISSOURI STATE HIGHWAY NO. 150, AS ESTABLISHED BY A MISSOURI STATE HIGHWAY NO. 150 SURVEY RECORDED ON JULY 9, 2009 AS INSTRUMENT NUMBER 2009E0068194 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE AND ALSO BEING THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE NORTH 88°02'15" WEST, ON SAID EXISTING NORTHERLY RIGHT-OF-WAY LINE, 864.32 FEET TO A POINT ON THE EXISTING EASTERLY RIGHT-OF-WAY LINE OF SW. ARBORIDGE DRIVE AS ESTABLISHED BY ARBORWALK 4TH PLAT, A-4 THRU K-4, RECORDED MAY 6, 2005 AS INSTRUMENT NUMBER 200510038320 IN BOOK 186 AT PAGE 73 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTHWESTERLY ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 63°56'56" WEST WITH A RADIUS OF 60.00 FEET, A CENTRAL ANGLE OF 66°03'30" AND AN ARC DISTANCE OF 69.18 FEET; THENCE NORTH 02°06'35" EAST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 43.75 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 325.00 FEET, A CENTRAL ANGLE OF 26°31'46" AND AN ARC DISTANCE OF 150.48 FEET; THENCE NORTH 24°25'11" WEST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 240.58 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 36°32'00" AND AN ARC DISTANCE OF 175.35 FEET; THENCE NORTHEASTERLY, ON SAID EXISTING EASTERLY RIGHT—OF—WAY LINE, ON A CURVE TO THE RIGHT HAVING A COMMON TANGENT WITH THE LAST DESCRIBED COURSE WITH A RADIUS OF 84.00 FEET, A CENTRAL ANGLE OF 100°32'29" AND AN ARC DISTANCE OF 147.40 FEET; TO A POINT ON THE EXISTING SOUTHERLY RIGHT-OF-WAY LINE OF SW. ARBORWALK BOULEVARD AS ESTABLISHED BY SAID ARBORWALK 4TH PLAT, A-4 THRU K-4; THENCE SOUTH 67'20'42" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 59.12 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 67°20'44" EAST WITH A RADIUS OF 420.00 FEET, A CENTRAL ANGLE OF 15°11'39" AND AN ARC DISTANCE OF 111.38 FEET; THENCE SOUTH 52°09'04" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 113.01 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 480.00 FEET, A CENTRAL ANGLE OF 35°42'22" AND AN ARC DISTANCE OF 299.13 FEET; THENCE SOUTH 87°51'25" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 157.54 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 87°51'23" EAST WITH A RADIUS OF 470.00 FEET, A CENTRAL ANGLE OF 22°40'59" AND AN ARC DISTANCE OF 186.07 FEET; THENCE SOUTH 65°10'24" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 183.16 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 530.03 FEET, A CENTRAL ANGLE OF 02°47'35" AND AN ARC DISTANCE OF 25.84 FEET TO THE NORTHWEST CORNER OF SAID AMENDED ARBORWALK — 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6—A; THENCE ALONG A LINE NON-TANGENT TO SAID CURVE, SOUTH 24°49'36" WEST, ON SAID WESTERLY LINE OF SAID AMENDED ARBORWALK - 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; 92.90 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE, 41.91 FEET; THENCE NORTH 87°54'12" WEST, ON SAID WESTERLY LINE, 66.85 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE,

217.62 FEET TO THE POINT OF BEGINNING. CONTAINING 516,669 SQUARE FEET OR 11.86 ACRES, MORE OR LESS.

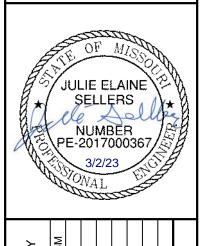
RELEASED FOR CONSTRUCTION **As Noted on Plan Review**

> **Development Services Department** Lee's Summit, Missouri 03/14/2023



FDP PL2022290 PERMIT PRCOM20224008 **LOCATION MAP**

| | Sheet List Table |
|--------------|---------------------------------------|
| Sheet Number | Sheet Title |
| CO.O | TITLE SHEET |
| C1.0 | GENERAL NOTES |
| C2.0 | EXISTING CONDITIONS & DEMOLITION PLAN |
| C3.0 | SITE PLAN |
| C3.1 | OVERALL DIMENSION PLAN |
| C3.2 | DIMENSION PLAN (A) |
| | ` , |
| C3.3 | DIMENSION PLAN (B) |
| C3.4 | DIMENSION PLAN (C) |
| C3.5 | DIMENSION PLAN (D) |
| C3.6 | FIRE LANE PLAN |
| C4.0 | OVERALL GRADING PLAN |
| C4.1 | SPOT ELEVATIONS (A) |
| C4.2 | SPOT ELEVATIONS (B) |
| C4.3 | SPOT ELEVATIONS (C) |
| C4.4 | SPOT ELEVATIONS (D) |
| C4.5 | GRADING DETAILS |
| C4.6 | GRADING DETAILS |
| C5.0 | OVERALL UTILITY PLAN |
| C6.0 | STORMWATER MANAGEMENT PLAN |
| C7.0 | STORM PLAN & PROFILE |
| C7.1 | STORM PLAN & PROFILE |
| C7.2 | STORM PLAN & PROFILE |
| C7.3 | STORM PLAN & PROFILE |
| C7.4 | STORM PLAN & PROFILE |
| C7.5 | STORM PLAN & PROFILE |
| C7.6 | STORM PLAN - DOWNSPOUT CONNECTION A |
| C7.8 | STORM DESIGN TABLES |
| C8.0 | SANITARY SEWER PLAN |
| C9.0 | WATER PLAN & PROFILE |
| C9.1 | WATER PLAN & PROFILE |
| C9.2 | WATER PLAN & PROFILE |
| C9.3 | WATER PLAN & PROFILE |
| C9.4 | WATER PLAN & PROFILE |
| C9.5 | WATER PLAN & PROFILE |
| C10.0 | CONSTRUCTION DETAILS |
| C10.1 | CONSTRUCTION DETAILS |
| L1.0 | LANDSCAPE NOTES |
| L1.1 | LANDSCAPE PLAN |
| L1.2 | LANDSCAPE DETAILS |
| L1.3 | TRASH ENCLOSURE |
| L1.4 | GENERATOR SCREEN |
| A2.01 | ARCHITECTURAL ELEVATIONS |
| A2.02 | ARCHITECTURAL ELEVATIONS |
| A2.03 | ARCHITECTURAL ELEVATIONS |
| A2.04 | ARCHITECTURAL ELEVATIONS |
| E1.1 | ELECTRICAL SITE PLAN |
| | |



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| CS | CITY COMMENTS | 10 10 2022 | 1 |
| B | REVISIONS DESCRIPTION | DATE | REV. NO. |

QA/QC by: drawing no.: C_TTL01_A2104054

SHEET

NO OIL OR GAS WELLS ARE LOCATED ON THE PROPERTY. INFORMATION VERIFIED VIA MISSOURI DNR https://dnr.mo.gov/geology/geosrv/oilandgas.htm

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER
- 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
- 8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- 9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
- 12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK—THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

- 1. ARCHITECTURAL AND STRUCTURAL ELEMENTS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTORS AND SURVEYORS SHALL REFERENCE THEIR RESPECTIVE PLANS FOR DESIGN INFORMATION.
- 2. THE CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AS PROVIDED BY THE GEOTECHNICAL ENGINEER INCLUDING ALL CURRENT ADDENDUMS. THE STANDARDS AND SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI SHALL ALSO APPLY AND TAKE PRECEDENCE WHEN STRICTER THAN THE GEOTECHNICAL REPORT OR WHEN NO GEOTECHNICAL REPORT IS GIVEN.
- 3. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY;
 A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF LEE'S
- B. ALL CONSTRUCTION IN MoDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MoDOT.
- C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- (MUTCD).
 D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO
- THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES..

 E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

EXISTING CONDITIONS

SUMMIT. MISSOURI.

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.
- 3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

- 1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT—OF—WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE CONTROLS TO THE SATISFACTION OF THE RIGHT—OF—WAY OWNER.
- 2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
- IN ADDITION TO THE CONDITIONS OF THE GEOTECHNICAL REPORT AND AS A MINIMUM THE CONTRACTOR SHALL PERFORM THE GRADING AS FOLLOWS:
- A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE IN AREAS DESIGNATED BY THE OWNER. CONTRACTOR SHALL REMOVE EXCESS STRIPPINGS AND EXCESS EXCAVATION WITHIN 30 DAYS OF COMPLETION OF GRADING
- B. AREAS TO RECEIVE FILL AND AREAS CUT TO SUBGRADE LEVEL SHALL BE SCARIFIED AND THE TOP 8—INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE SUBGRADE SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY
- FILL MATERIAL CAN BE APPLIED.

 C. FILL SHALL BE PLACED IN MAXIMUM OF 8 INCH LIFTS.

 D. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED. ALL DISTURBED AREAS SHALL BE LANDSCAPED PER LANDSCAPE PLANS OR SHALL BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY
- GRASS GROWTH IS ESTABLISHED.

 E. CONTRACTOR SHALL PROVIDE COMPACTION TEST RESULTS AS REQUIRED.
- 4. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES.
- 5. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL ADJUSTMENTS ARE INDICATED IN THE PLANS.
- 6. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW SHOP DRAWINGS OR SAMPLES CONFORMANCE WITH THE DESIGN FOR THIS PROJECT AS DESCRIBED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. THE ENGINEER'S REVIEW SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND
- A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO:
- B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK:
- C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO:
- D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.
- CONTRACT DOCUMENTS.

 E. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY
- 2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT LIMITED TO, THE FOLLOWING:

 A. ALL STORM SEWER STRUCTURES TO BE INSTALLED WITH THIS
- PROJECT.

 B. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS
- PROJECT.
 C. ALL SITE FENCING AND RAILING INCLUDING ANY GATES.

COMPLETED THE ABOVE TASKS.

- D. ALL LANDSCAPE AND RETAINING WALLS.
- E. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN "APPROVED EQUAL" ALTERNATIVE.

SITE PLAN NOTES

- 1. ALL PAVEMENT DIMENSIONS ARE TO BACK OF CURB, OR EDGE OF PAVEMENT WHERE NO CURB IS PRESENT, UNLESS OTHERWISE NOTED. DIMENSIONED TIES BETWEEN PROPERTY LINES AND BUILDING FACES OR PAVEMENT ARE AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY ADJUSTMENTS NECESSARY FOR FOUNDATIONS, BEDDING EXTENSIONS, SURCHARGING, ETC.
- 2. INSTALLED PAVEMENT SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT TO PROVIDE SMOOTH SURFACE TRANSITIONS. INSTALLED CURB & GUTTER SHALL MATCH EXISTING CURB & GUTTER IN SIZE AND TYPE OR CONTRACTOR SHALL INCLUDE A TRANSITION FROM NEW TO EXISTING OF NO LESS THAN 5' AS MEASURED ALONG BACK OF CURB.
- 3 ALL ASPHALT PAVING SHALL BE IN CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. WHERE NOT COVERED BY THE ABOVE, ASPHALT PAVING SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF MoDOT.
- 4. ALL PCC PAVING SHALL BE IN CONFORMANCE WITH LOCAL CODES AND ORDINANCES AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. WHERE NOT COVERED BY THE ABOVE, PCC PAVING SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF MODOT
- 5. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE
- A. CONTROL JOINTS SPACED AS SHOWN IN THESE PLANS OR AT INTERVALS NOT GREATER THAN 1.5x PANEL WIDTH OR 12 FEET (WHICHEVER IS SMALLER).
- B. CONTROL JOINTS SHALL BE TOOLED OR SAWCUT TO ¼ THE SLAB THICKNESS. LOCAL STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE WHERE MORE STRICT THAN THOSE LISTED HERE.

 C. CONSTRUCTION JOINTS PLACED AT THE END OF EACH POUR AND
- WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.

 D. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES.
- D. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABOTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NON-EXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
- E. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.

6. ACCESSIBLE PARKING

PFRCFNT

- A. STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA CODES AND ORDINANCES
- ORDINANCES.

 B. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5
- C. STALLS SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH SHARP EDGES AND ENDS.
- 7. PAVEMENT MARKINGS SHALL NOT BE APPLIED UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT AND ENGINEER, THE INSTALLED PAVEMENT IS ALLOWED TO AGE AS RECOMMENDED BY THE MANUFACTURER (MINIMUM OF 24 HOURS), AND THE PAVEMENT SURFACE HAS BEEN SWEPT AND CLEANED.
- 8. PAVEMENT MARKINGS SHALL INCLUDE TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS SHOWN IN THESE PLANS.
- 9. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE WHITE STRIPES UNLESS OTHERWISE INDICATED WITHIN THESE PLANS. ALL ROAD STRIPING SHALL BE AS INDICATED WITHIN THESE PLANS.
- CURBS AT FIRE LANES AS DESIGNATIONS BY THE FIRE MARSHAL SHALL BE PAINTED OR OTHERWISE INDICATED PER CITY OF CITY CODES AND ORDINANCES.
- 11. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS (FHMS) AND CITY OF CITY CODES AND ORDINANCES. USE FLAT BLACK, WHITE, OR YELLOW AS DIRECTED WITHIN PLANS OR IN CONFORMANCE WITH THE FHMS. UNLESS OTHERWISE SPECIFIED USE LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINITES
- 12. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN AND A MINIMUM WET FILM THICKNESS OF 15 MILS. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.

GRADING PLAN NOTES

- 1. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE, SURFACE OF PAVEMENT, TOP OF CURBS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT PAVEMENT DEPTH FROM ELEVATIONS SHOWN.
- 2. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
- 3. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE.
- 4. SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED. (SEE LEGEND)

STORM SEWER PLAN NOTES

INSTALLATION.

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH LEE'S SUMMIT, MISSOURI.
- 2. ALL PIPE LENGTHS AND ELEVATIONS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE.
 ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND
- 4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF STORM SEWER.

ORDINANCES OR AS AN AID WHEN ORIENTING THE BOX DURING

5. STORM SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR

DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.

- 6. STRUCTURE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO ½ THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY THROUGH THE STRUCTURE.
- 7. PIPE PENETRATIONS SHALL BE GROUTED TO ENSURE WATERTIGHT SEALS.

SANITARY SEWER PLAN NOTES

- PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH LEE'S SUMMIT, MISSOURI.
- 2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 3. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE.
 ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND
 ORDINANCES OR AS AN AID WHEN ORIENTING THE LID DURING
 INSTALLATION.
- 4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF SANITARY SEWER.
- 5. SANITARY SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
- 6. MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO ½ THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY THROUGH THE MANHOLE.
- 7. PIPE PENETRATIONS SHALL BE USE GASKETS TO ENSURE WATERTIGHT SEALS.
- 8. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.
- 9. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM OF TWO FULL BUSINESS DAYS IN ADVANCE. CONTRACTOR SHALL FURNISH ALL TESTING EQUIPMENT. TESTING SHALL INCLUDE A. MANDREL TEST OF ALL GRAVITY SEWERS. IF THE MANDREL TEST FAILS ON ANY SECTION OF PIPE, THAT SECTION SHALL BE
 - B. AIR PRESSURE TEST OF ALL GRAVITY SEWERS.C. VACUUM TEST OF ALL MANHOLES.

UNCOVERED AND REPLACED.

10. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10'HORIZONTALLY WHEN PARALLEL AND 2'VERTICALLY WHEN CROSSING. WATER LINES SHALL CROSS ABOVE SANITARY SEWERS.

WATER PLAN NOTES

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.
- 2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF FITTING OR WALL OF VAULT.

COORDINATES PROVIDED ARE PER LOCAL CODES AND ORDINANCES OR

AS AN AID WHEN ORIENTING INSTALLATIONS.

4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF

3. COORDINATES ARE PROVIDED ALONG PIPE CENTERLINE. ADDITIONAL

- POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF WATER.
- 5. WATER PIPE TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
- 6. ALL PRIVATE WATER LINES SHALL BE A MINIMUM OF 48 INCHES AND MAXIMUM OF 60 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN UNLESS OTHERWISE NOTED.
- IF AN AS-BUILT OF A WATER LINE IS REQUIRED OR EXPECTED THE CONTRACTOR SHALL NOT BACKFILL THE TRENCH UNTIL AN AS-BUILT SURVEY IS CONDUCTED.
- 8. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR AND AS REQUIRED BY THE UTILITY OWNER.
- 8ALL EXISTING FIRE HYDRANTS ON SITE OR IN THE RIGHT—OF—WAY BETWEEN PROPERTY AND ROADWAY SHALL BE REPAINTED PER LOCAL CODES AND ORDINANCES.

SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.

10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC

DEMOLITION PLAN NOTES

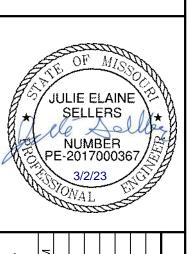
- 1. ALL NECESSARY DEMOLITION IS EXPECTED TO BE PERFORMED AS INDICATED IN THE SITE DISTURBANCE, MASS GRADING, AND PUBLIC IMPROVMENT PLANS. CONTRACTOR SHALL CONTACT ENGINEER AND OWNER PRIOR TO PERFORMING ANY ADDITIONAL DEMOLITION ACTIVITIES.
- 2. THE CONTRACTOR SHALL COORDINATE ALL ITEMS TO BE SALVAGED AND/OR PROTECTED WITH SITE OWNER AND UTILITY OWNERS.
- 3. THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICES TO ANY ADJACENT PROPERTIES. SHOULD ANY INTERRUPTIONS BECOME NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROPERTY AND UTILITY OWNER AND MINIMIZE THE LENGTH OF TIME THE UTILITY IS INTERRUPTED TO THE GREATEST EXTENT POSSIBLE.
- 4. SECONDARY WIRING, SERVICES, IRRIGATION AND OTHER MINOR SITE IMPROVEMENTS THAT ARE NOT TO REMAIN IN SERVICE ARE TO BE DEMOLISHED AND REMOVED.
- 5. ALL PAVEMENT SAWCUTS ARE TO BE MADE IN STRAIGHT, CLEAN LINES LEAVING A CLEAN AND STABLE EDGE AT FULL PAVEMENT DEPTH.
- 6. ALL PCC PAVEMENT AND ALL CURB SHALL BE REMOVED TO NEAREST JOINT.
- 7. ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN STRICT CONFORMANCE WITH LOCAL CODES AND ORDINANCES.
- 8. ALL TREE REMOVAL SHALL INCLUDE STUMPS AND ROOTS.
 DEPRESSIONS CREATED SHALL BE FILLED TO PROVIDE DRAINAGE.

DRY UTILITY PLAN NOTES

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.
- 2. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND AND WITHIN CONDUIT UNLESS OTHERWISE SPECIFIED IN THESE PLANS. IF NOT SPECIFIED, ALL CONDUIT SHALL BE IN CONFORMANCE WITH UTILITY OWNER STANDARDS AND SPECIFICATIONS.
- 3. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS, IF SHOWN AT ALL, ARE SUGGESTED ALIGNMENTS ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AS REQUIRED BY MEP AND RELATED PLANS AS WELL AS SERVICE PROVIDER PRIOR TO PAVEMENT INSTALLATION.
- 4. ALL CONDUIT SHALL BE SCHEDULE 40 PVC PIPE AND SIZED PER MEP PLANS OR AS NOTED. CONDUIT SHALL BE SUFFICIENTLY FLEXIBLE TO ALLOW IT TO CONFORM TO MINOR CHANGES IN TRENCH DIRECTION OR ELEVATION. ALL OTHER BENDS SHALL BE MADE USING PRE—FORMED SWEEPS.

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

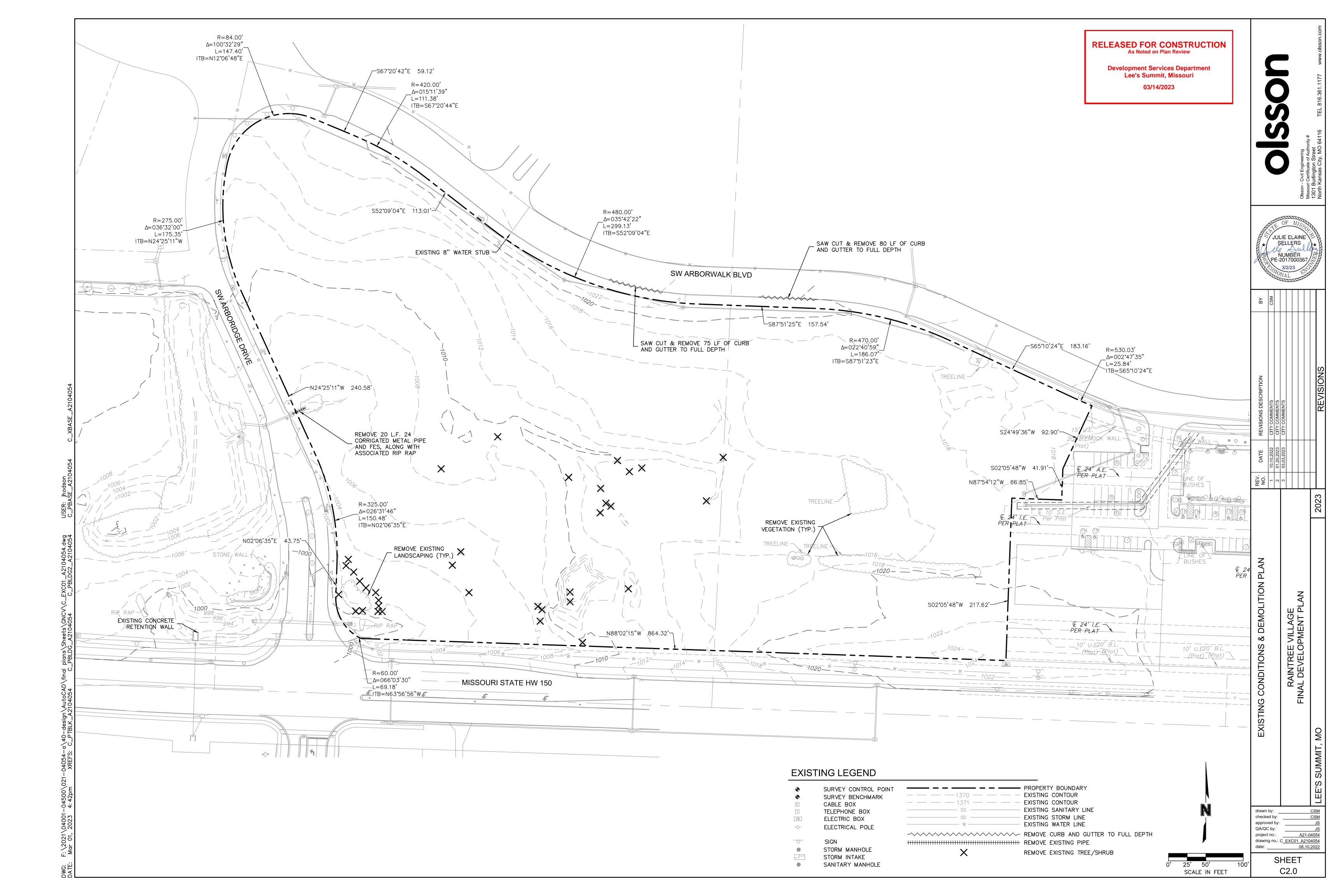
Development Services Department Lee's Summit, Missouri 03/14/2023 **SSS**

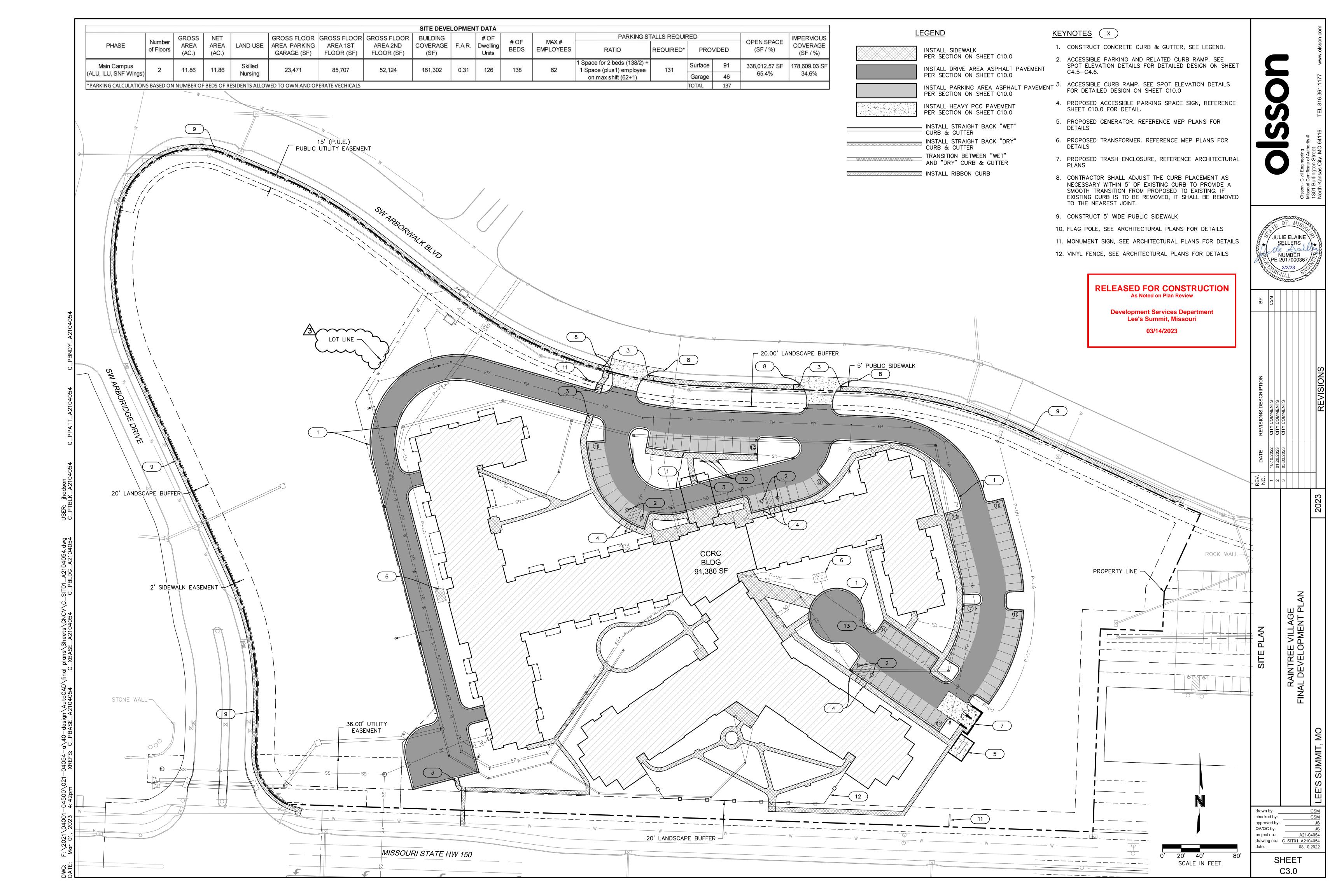


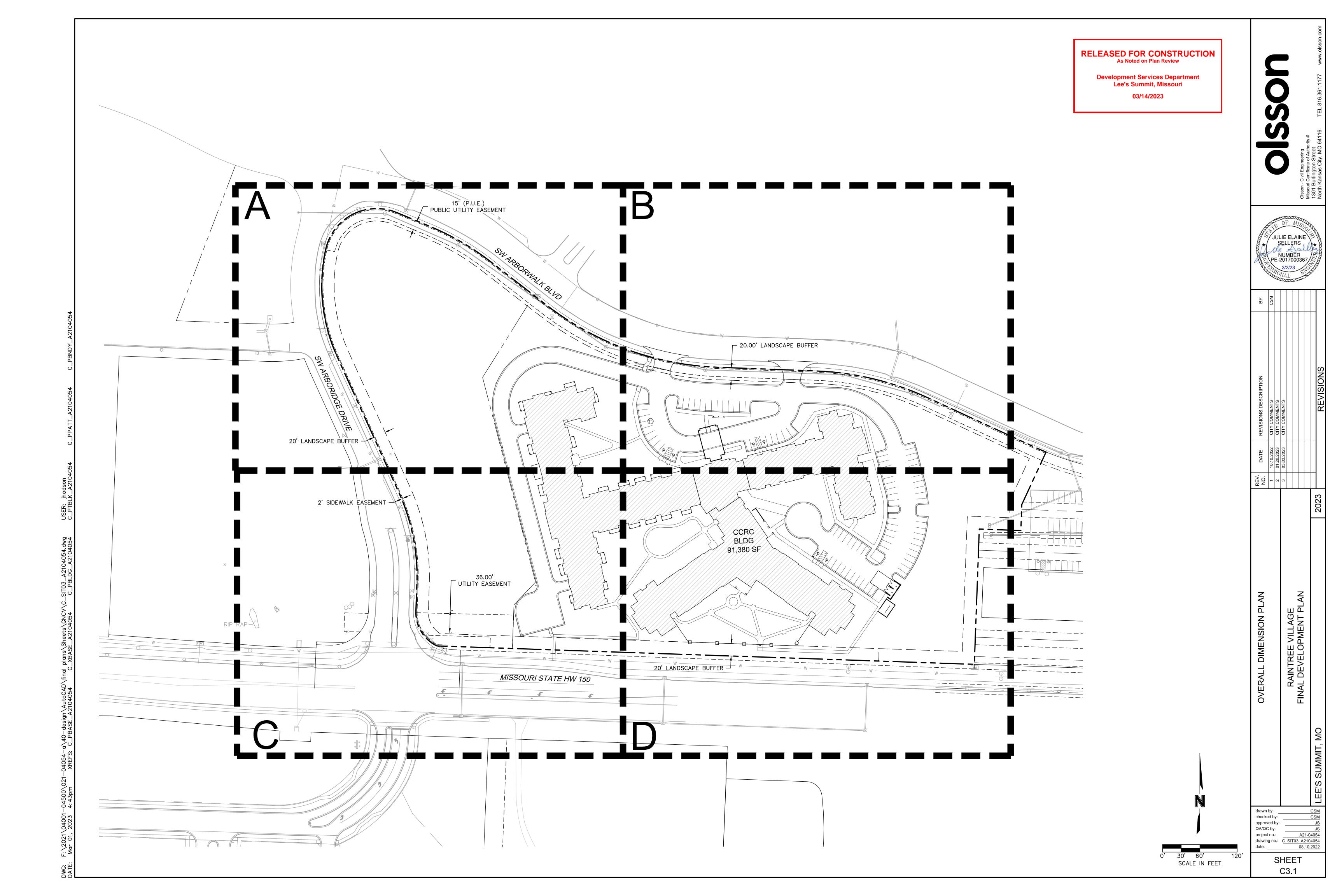
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QA/QC by: JS
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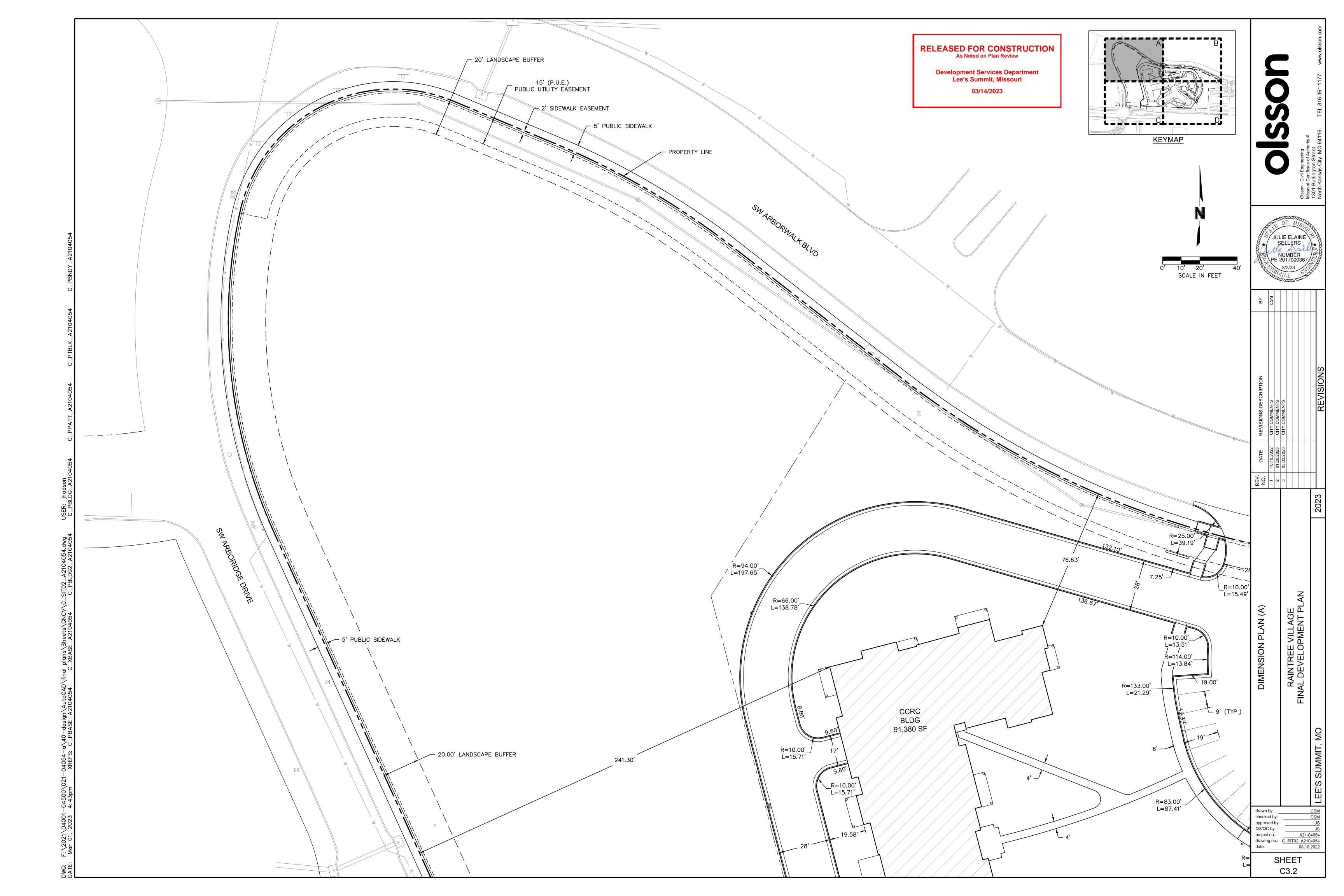
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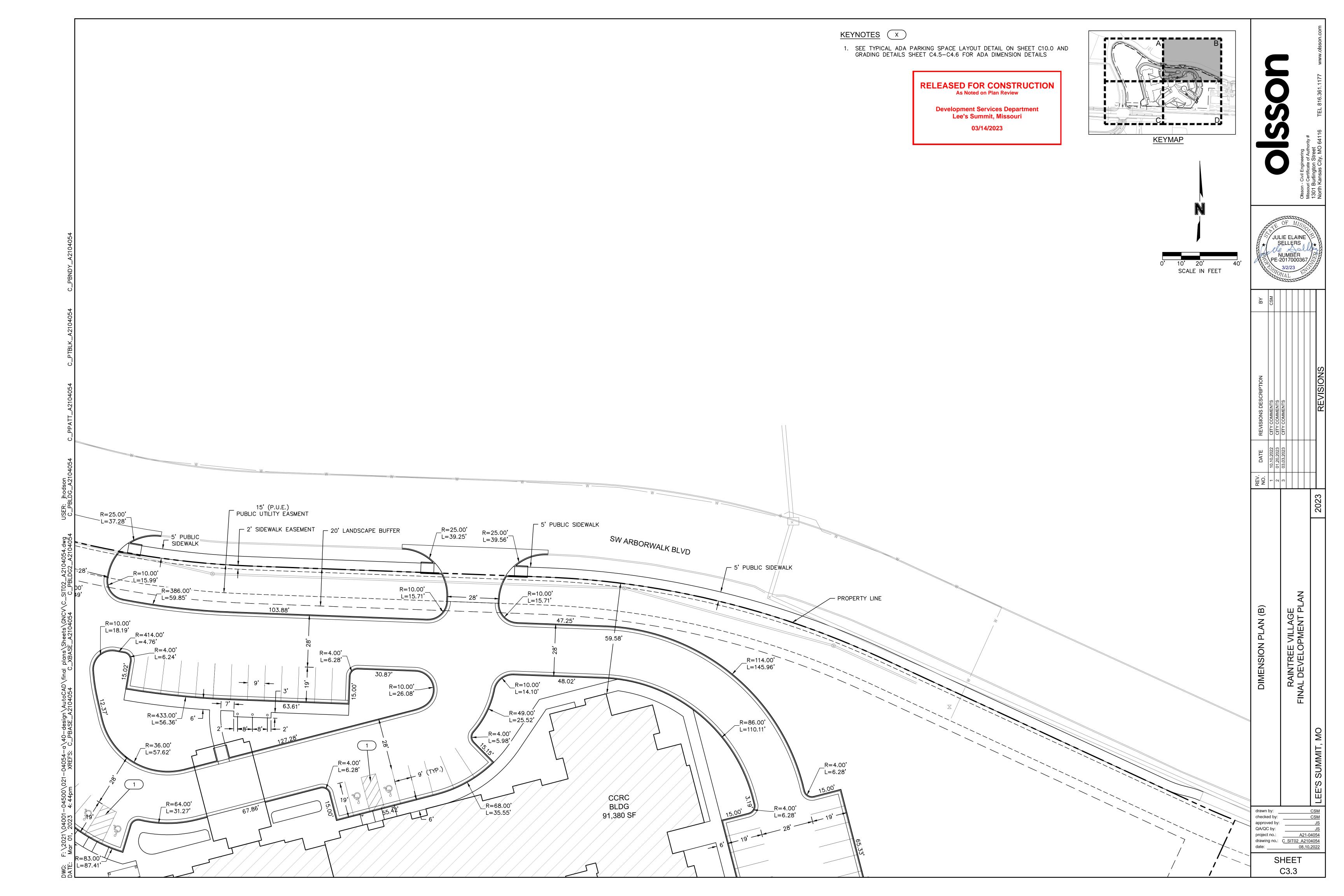
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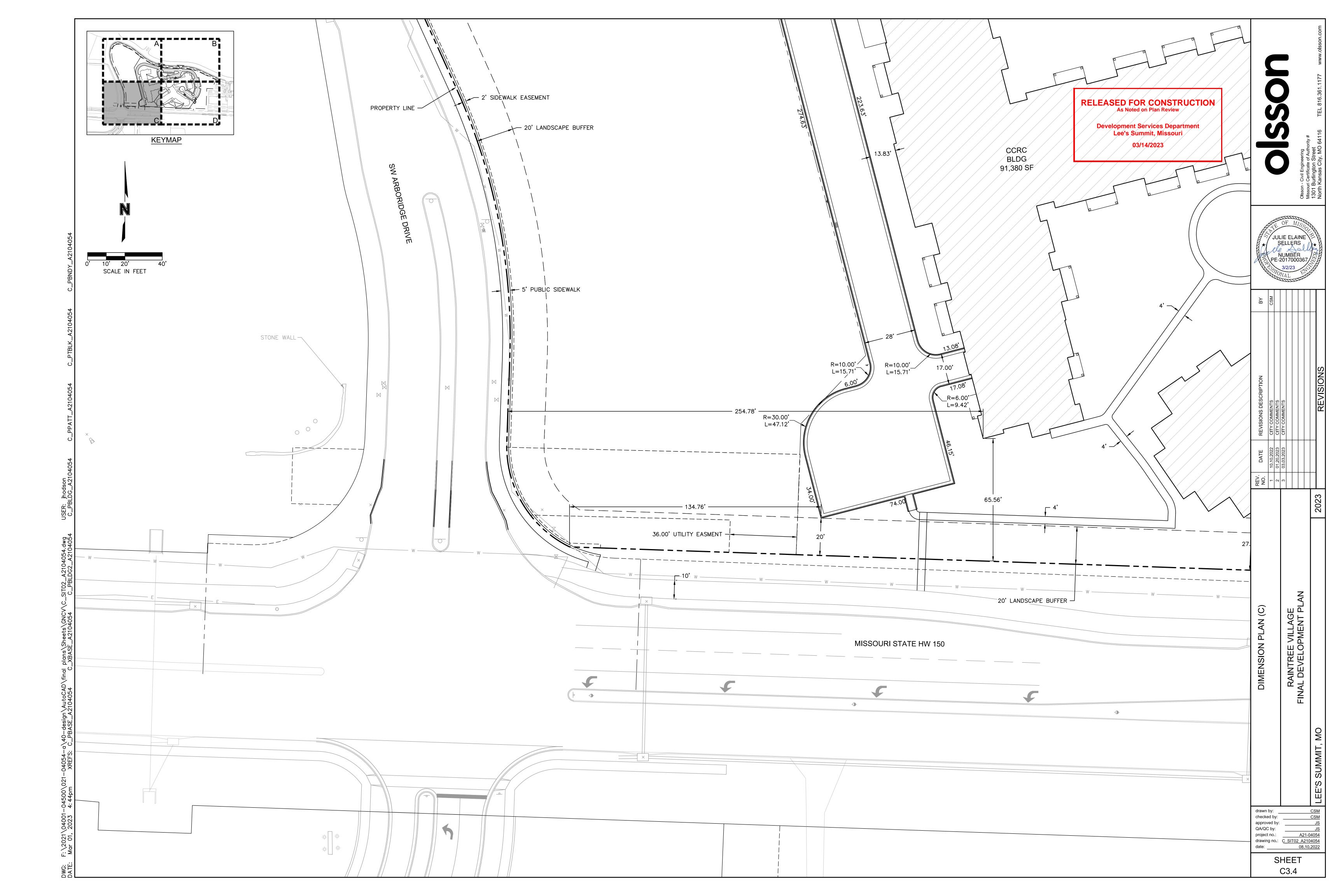


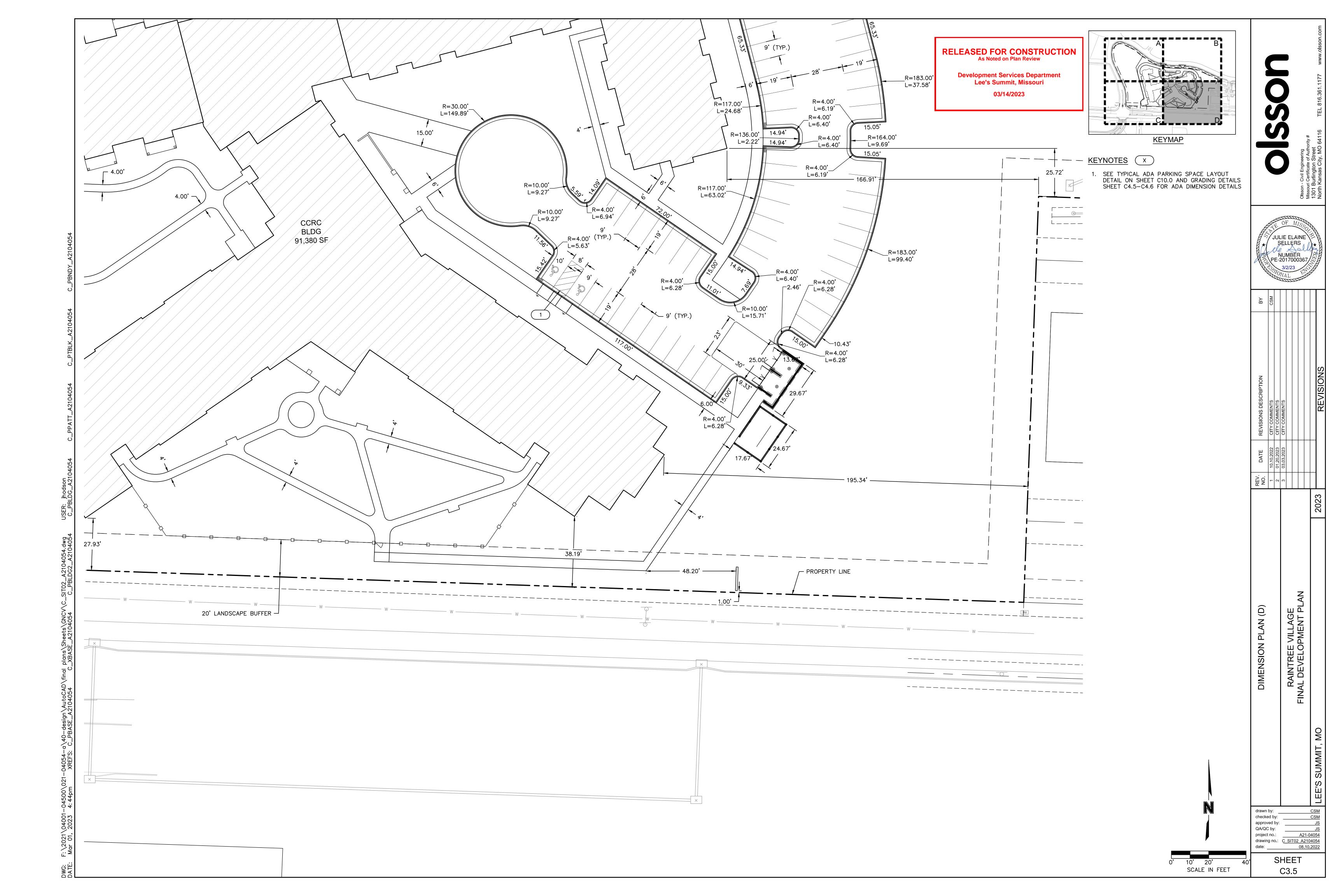


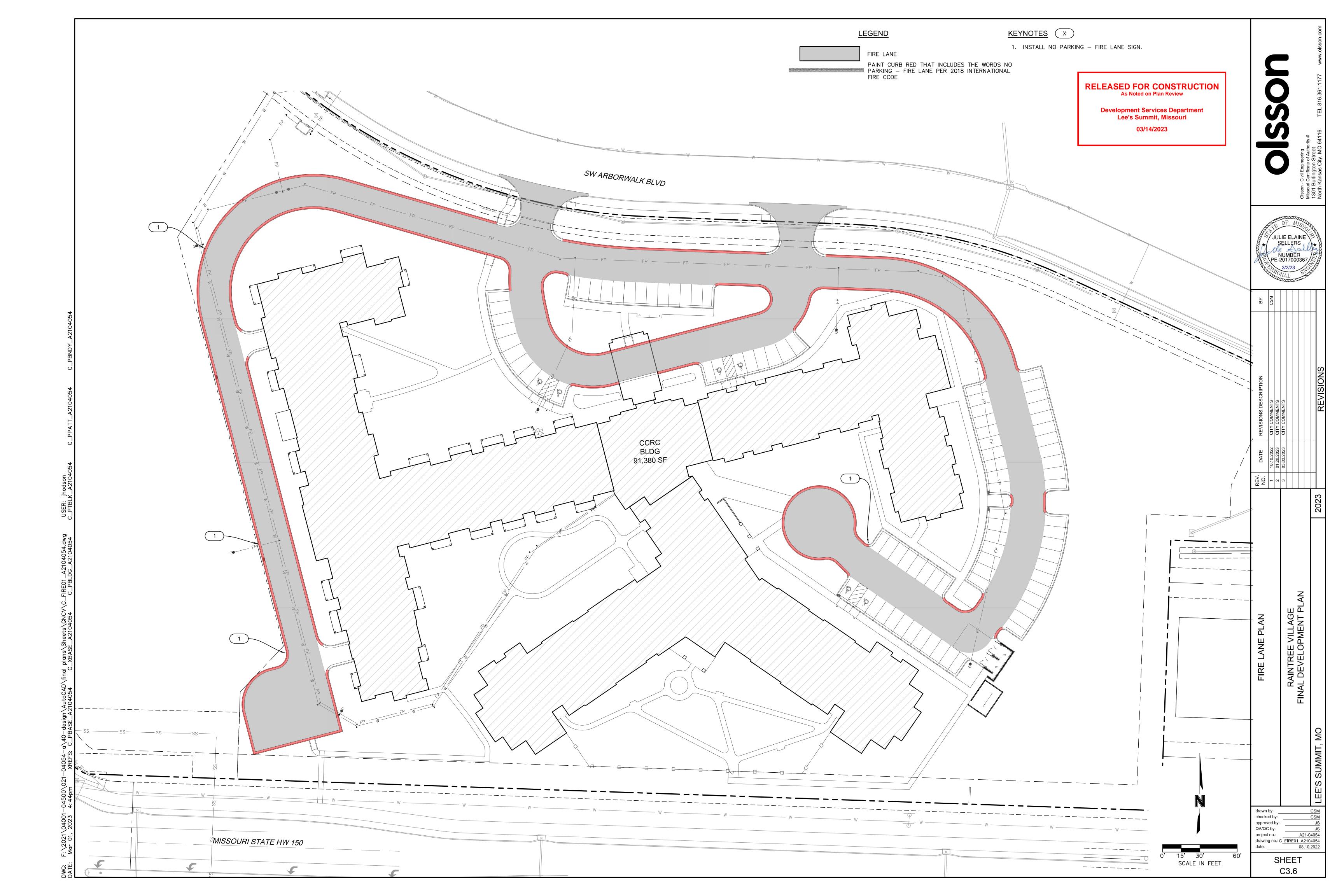


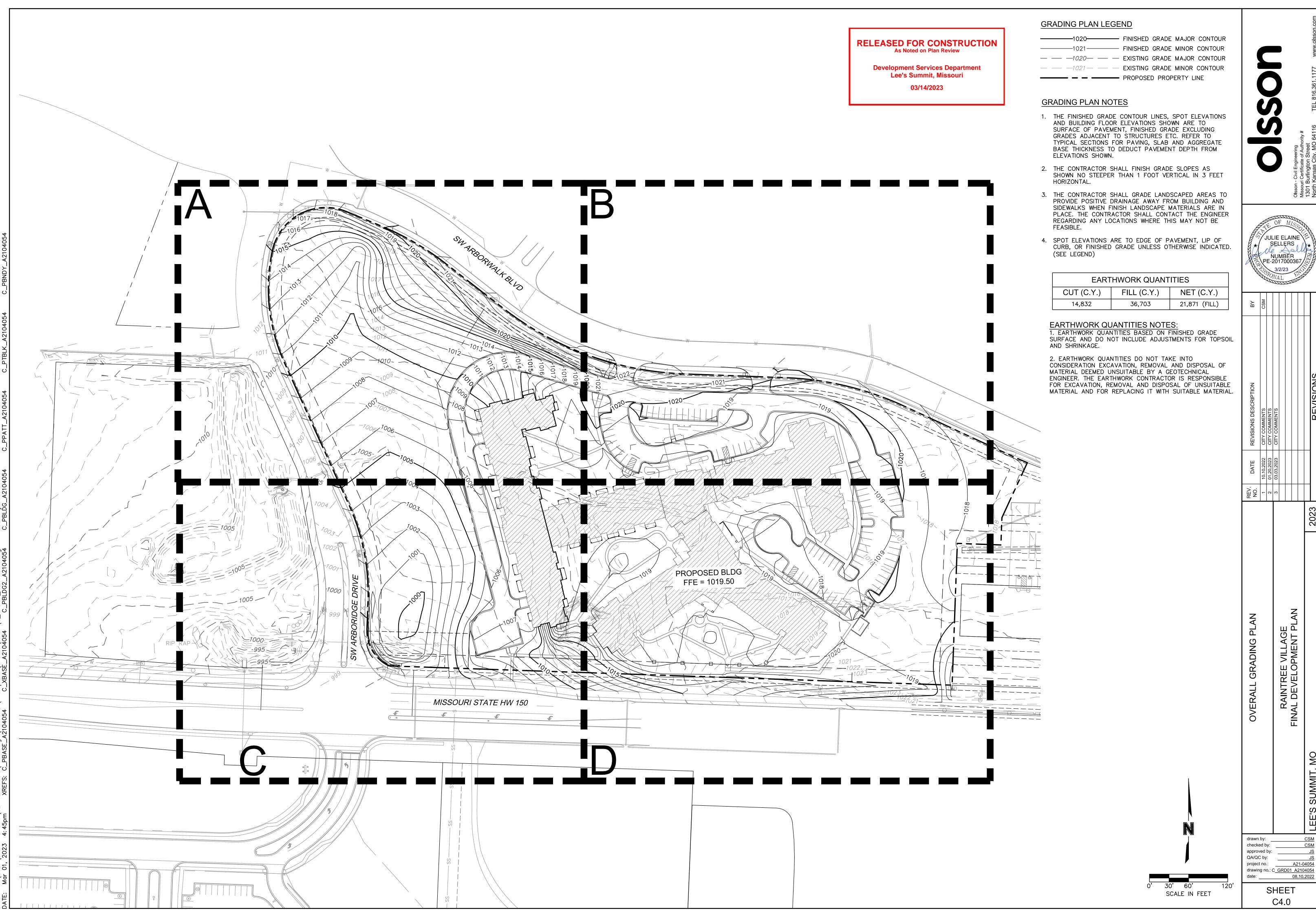




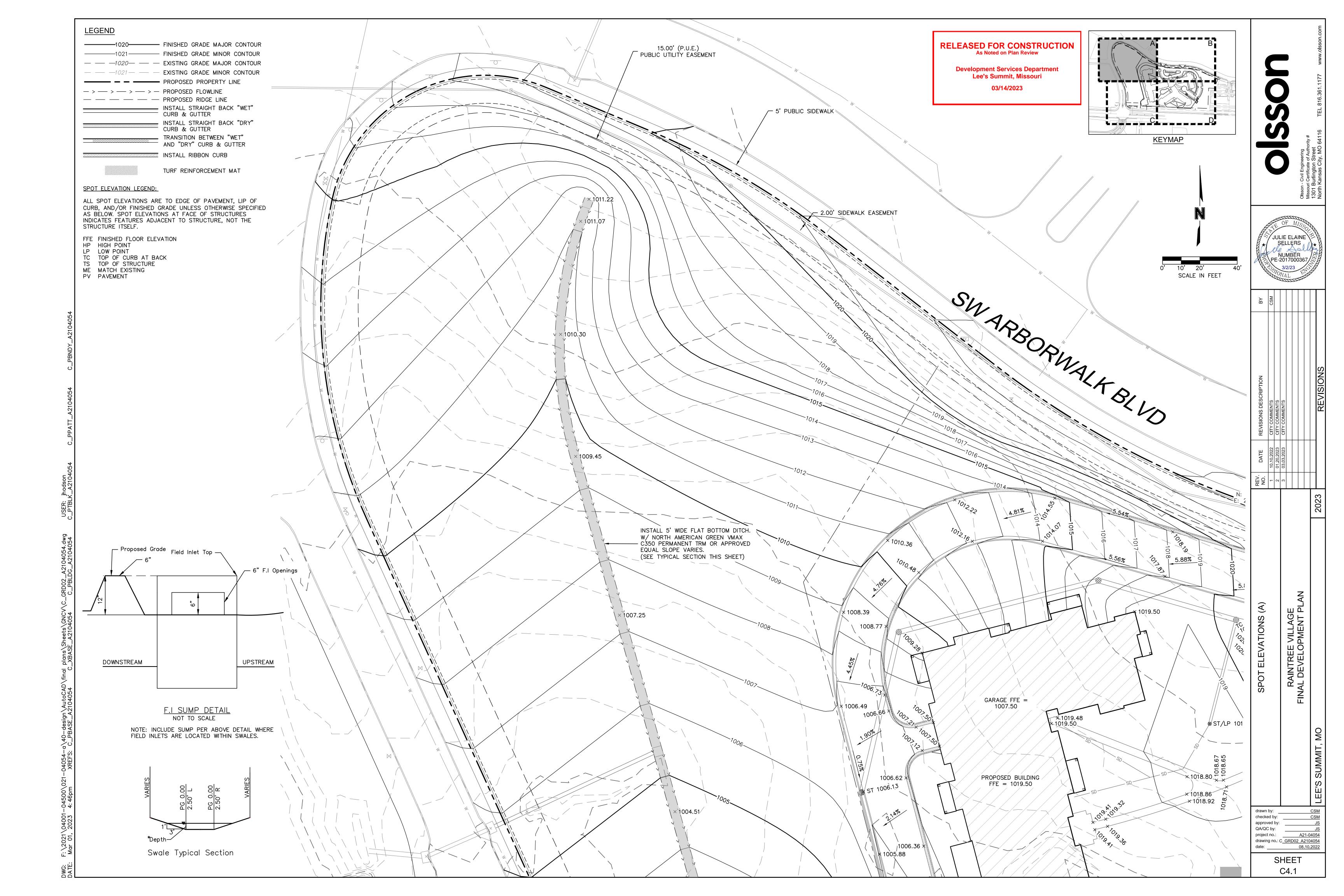


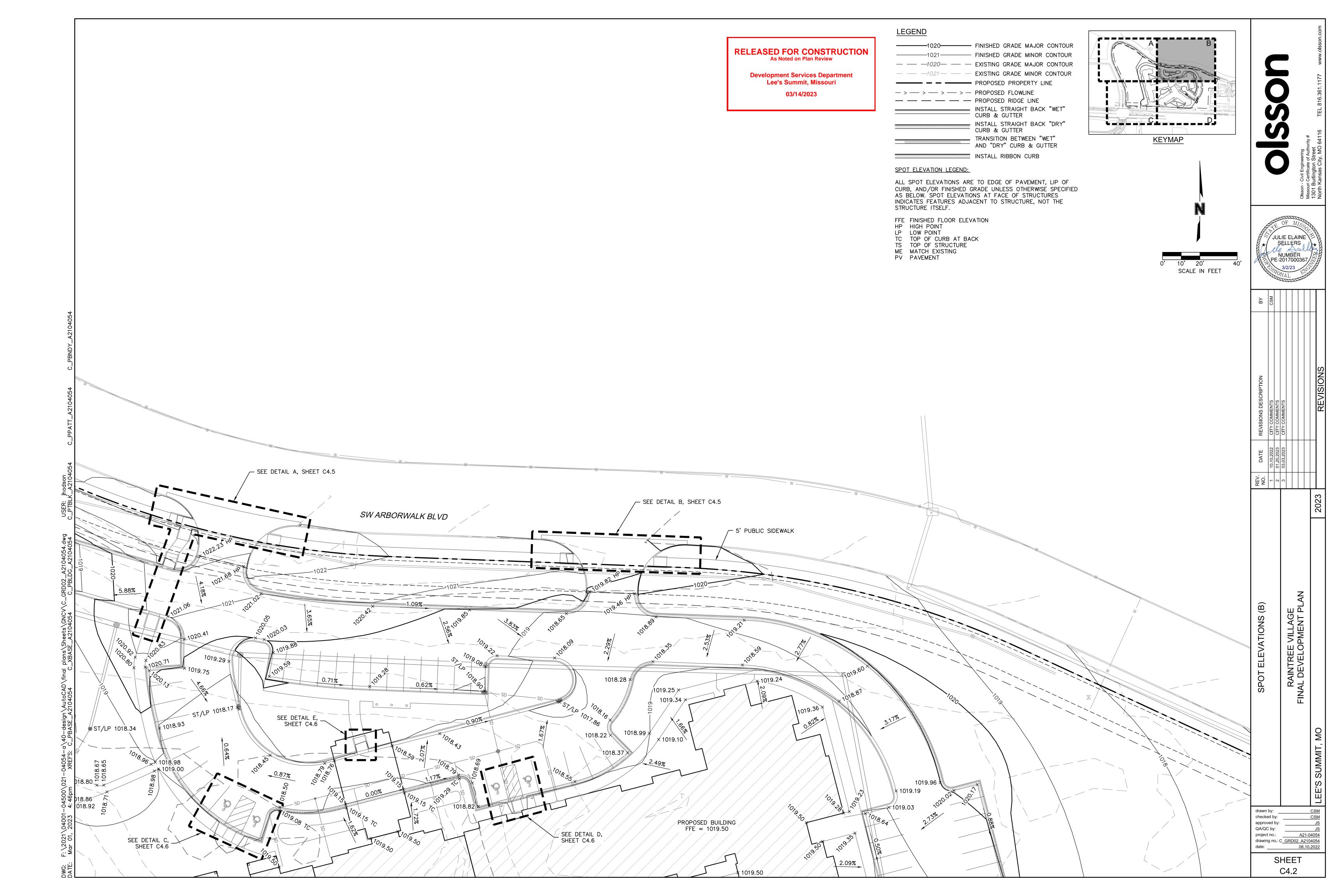


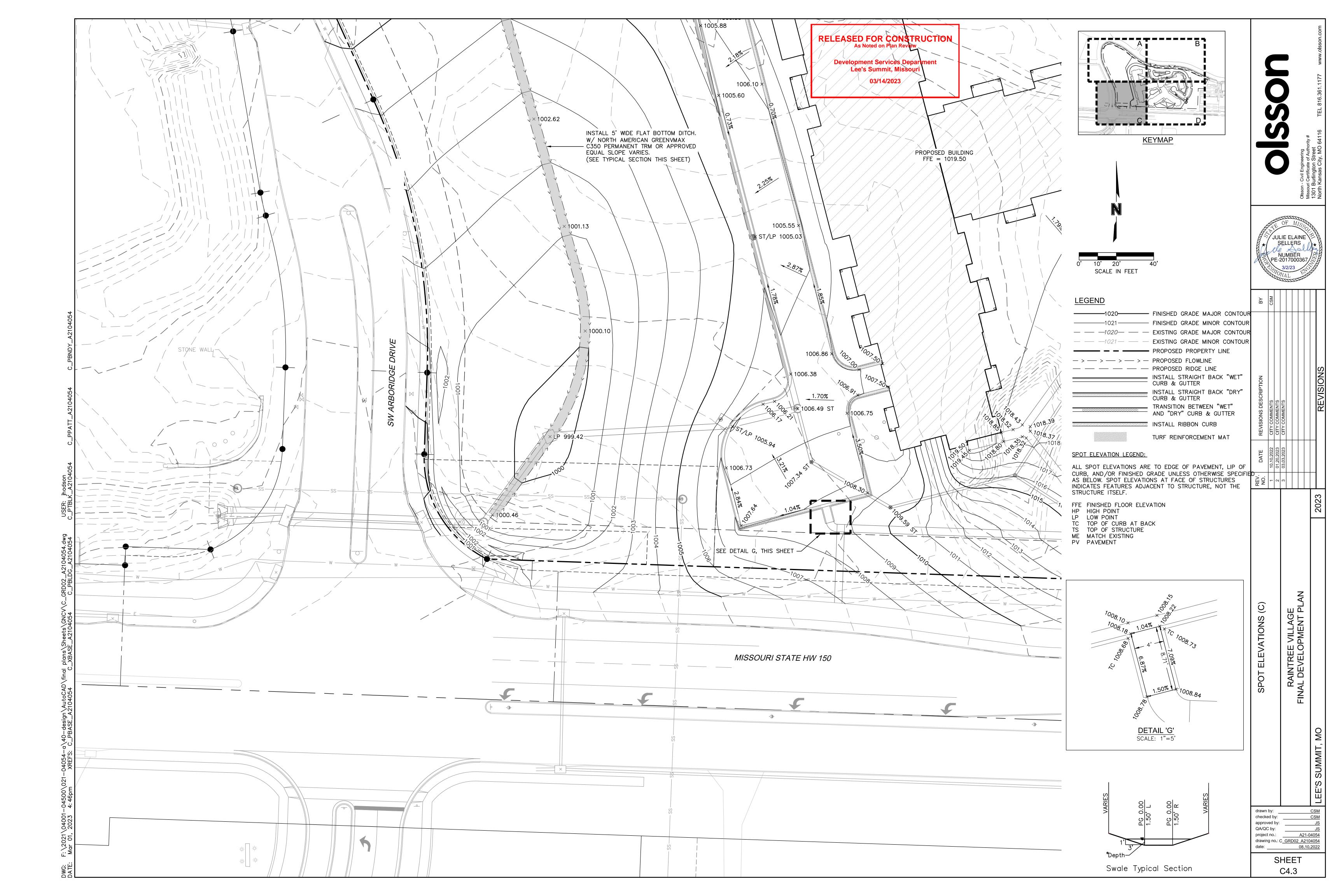


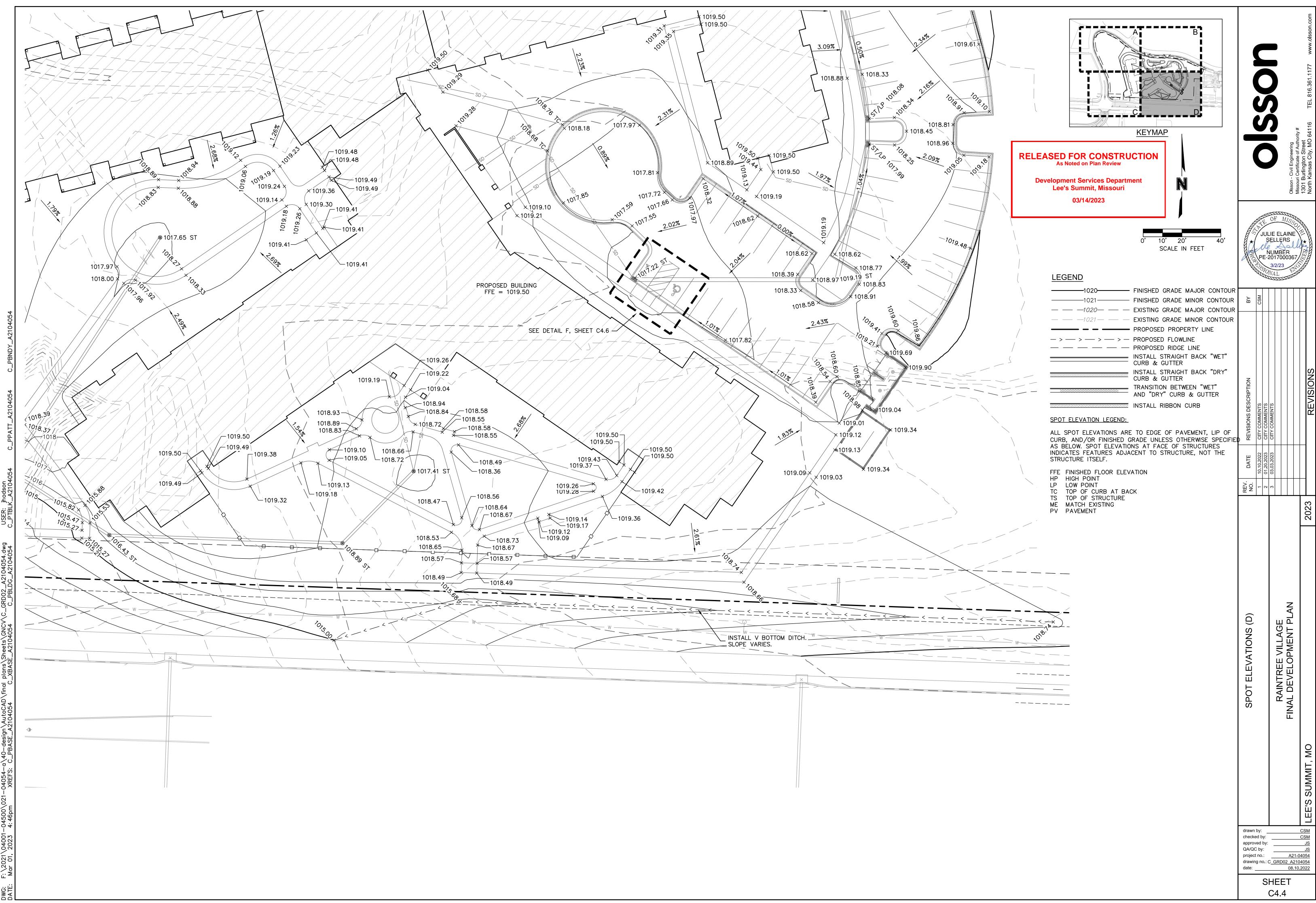


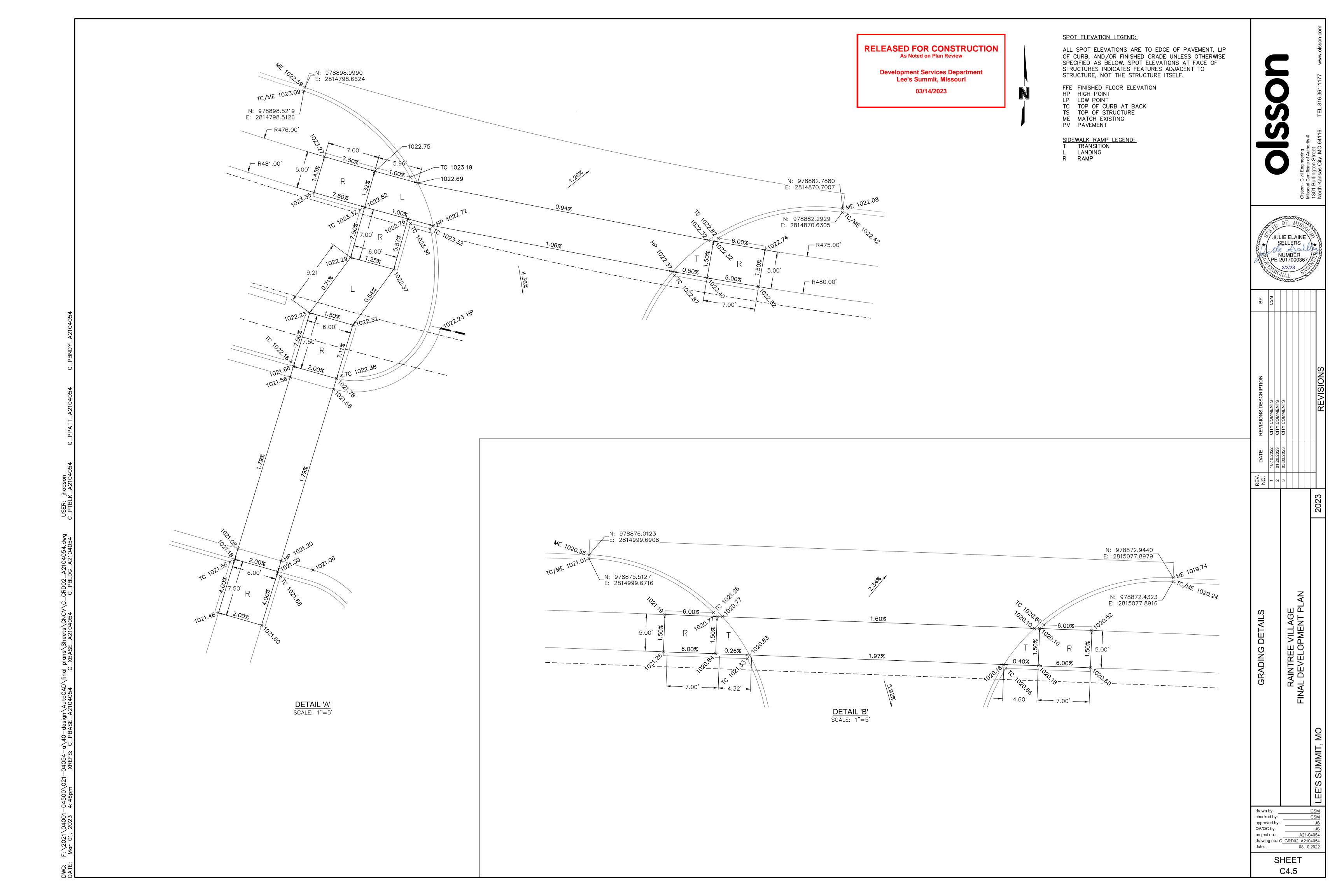
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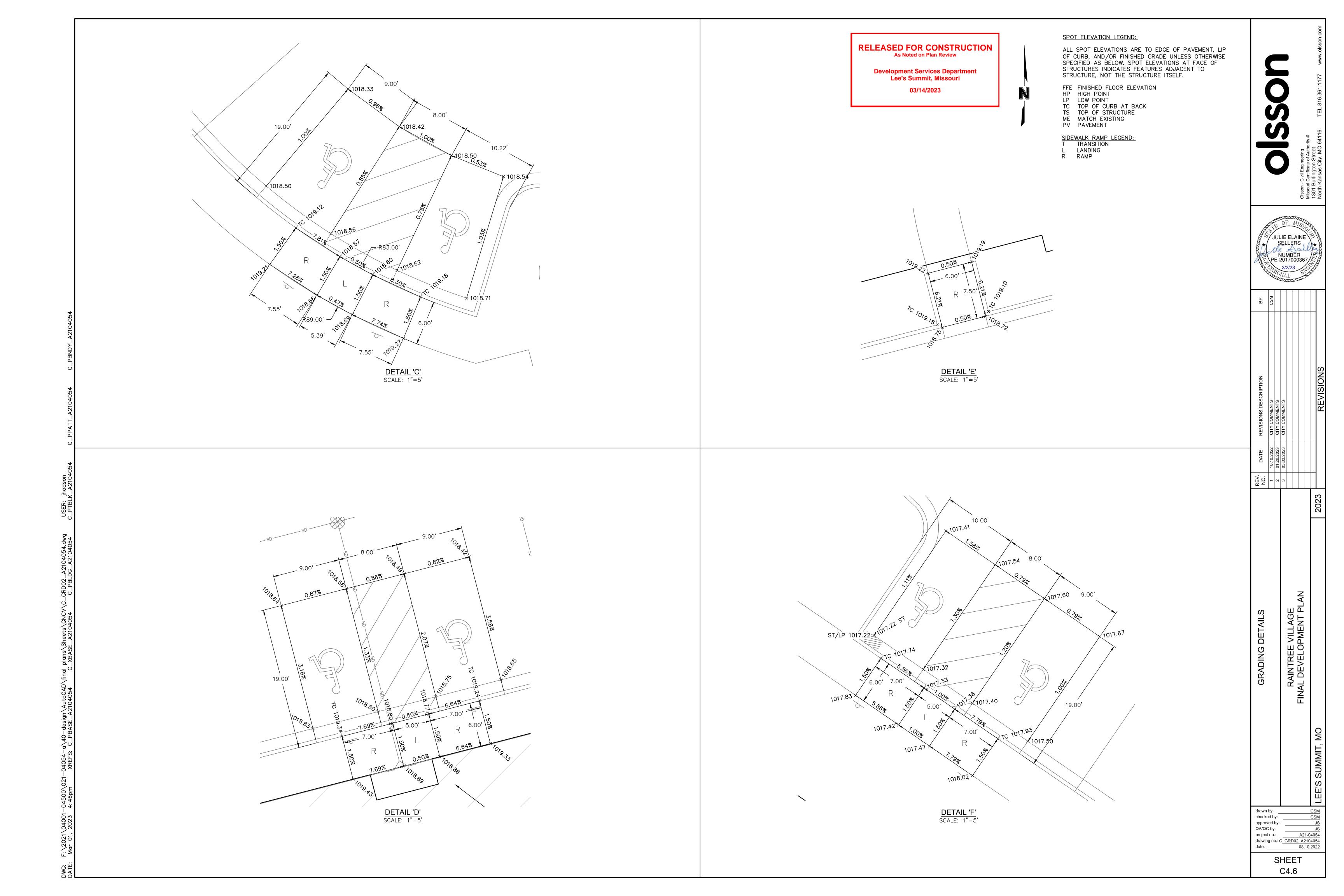


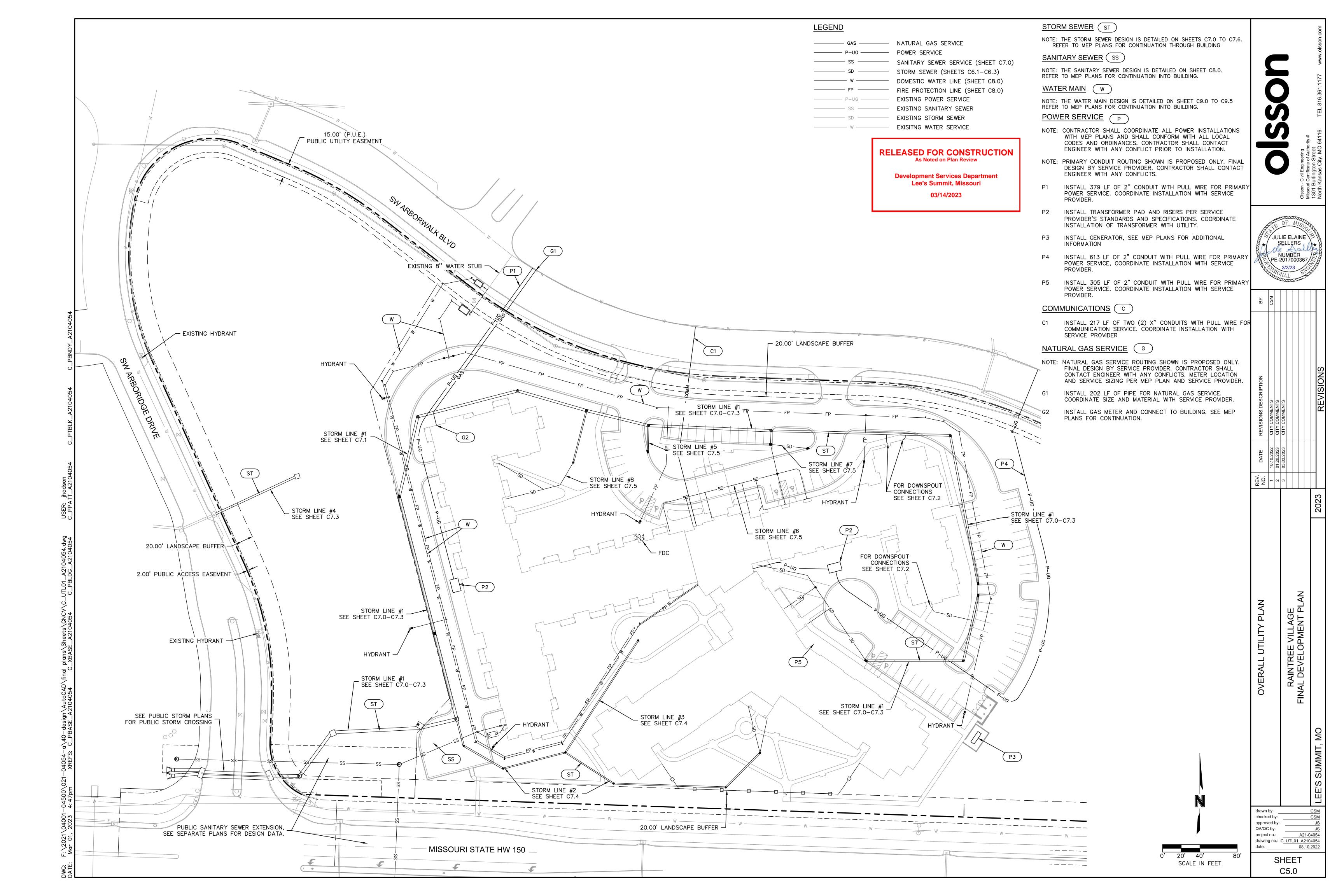


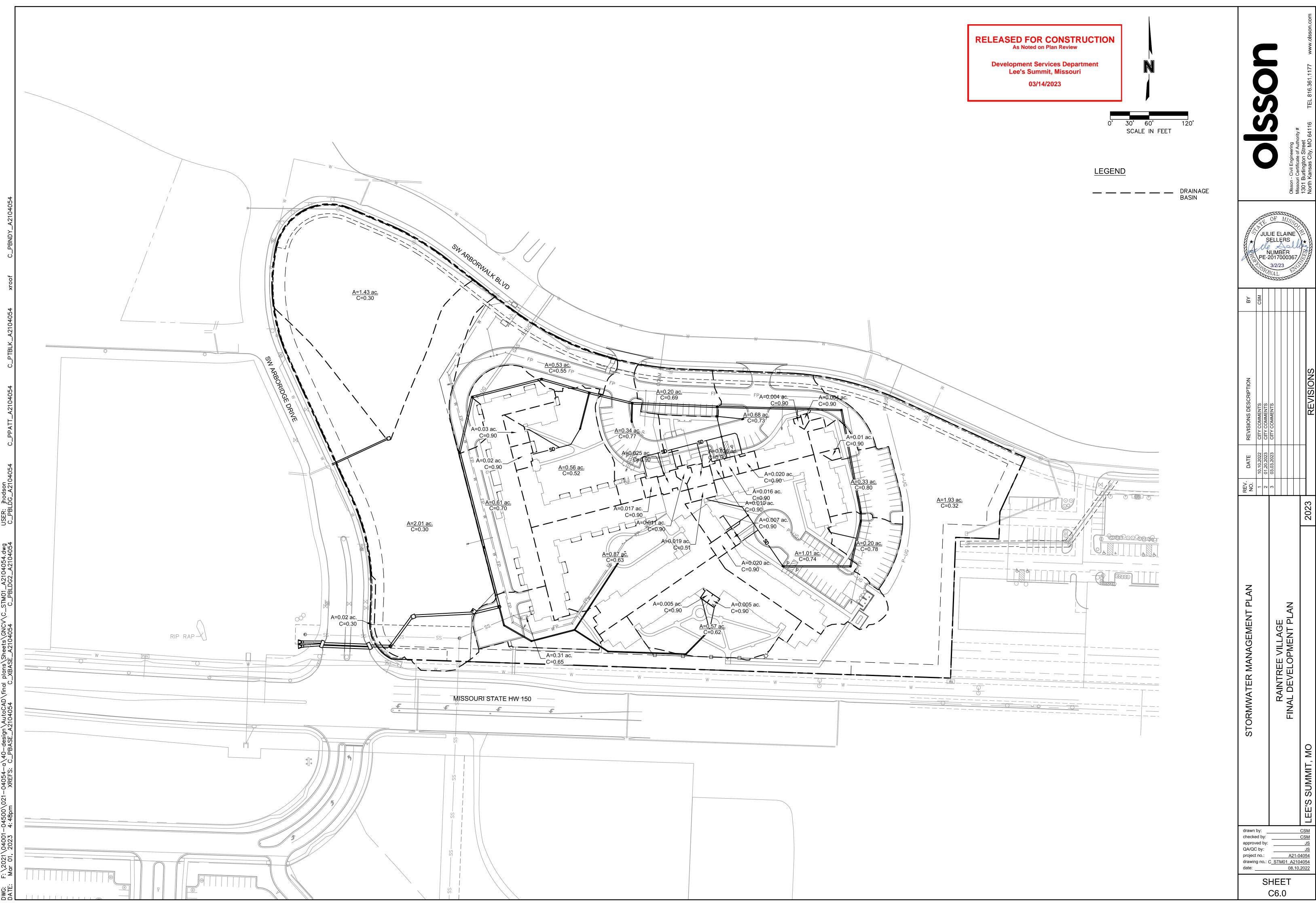




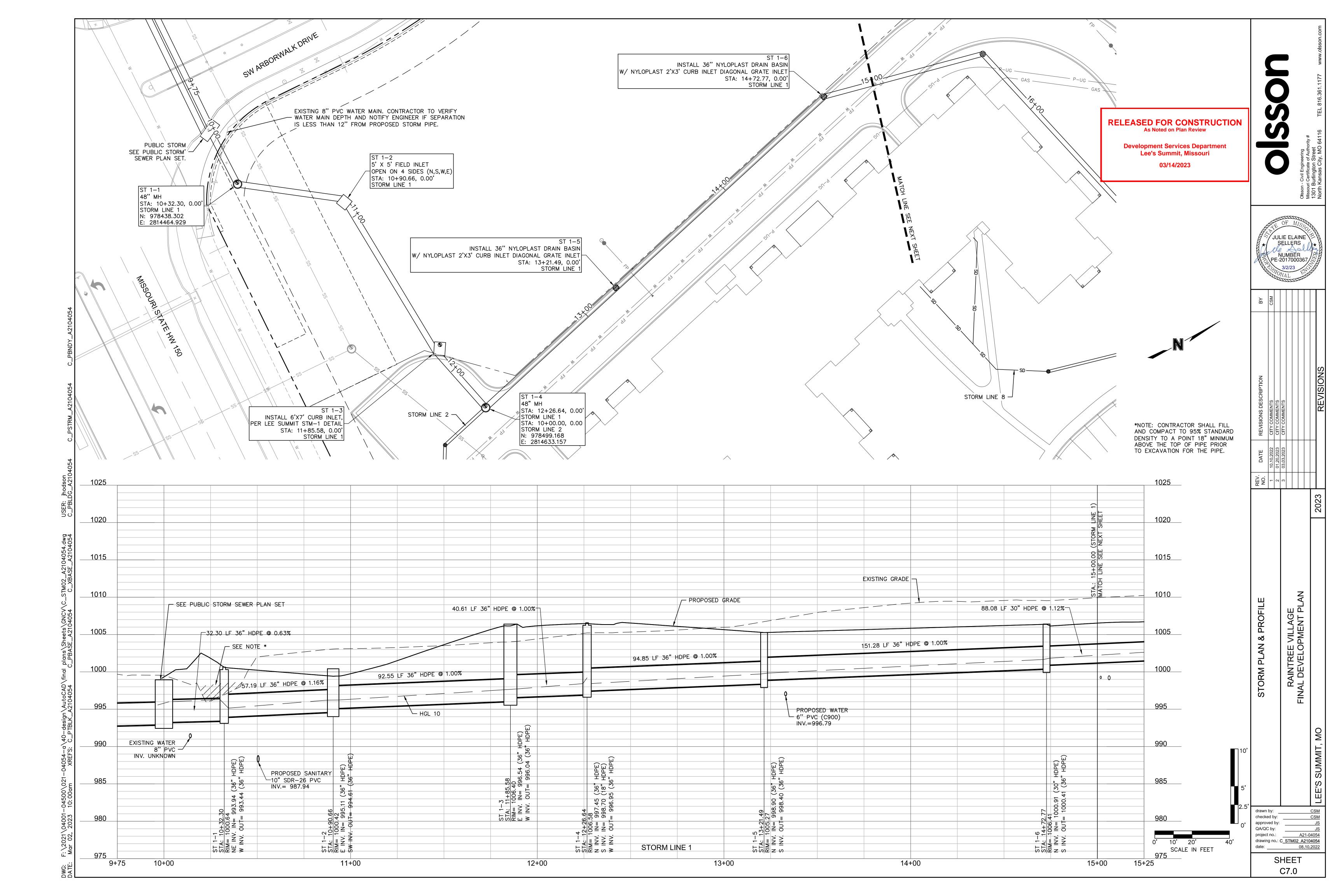


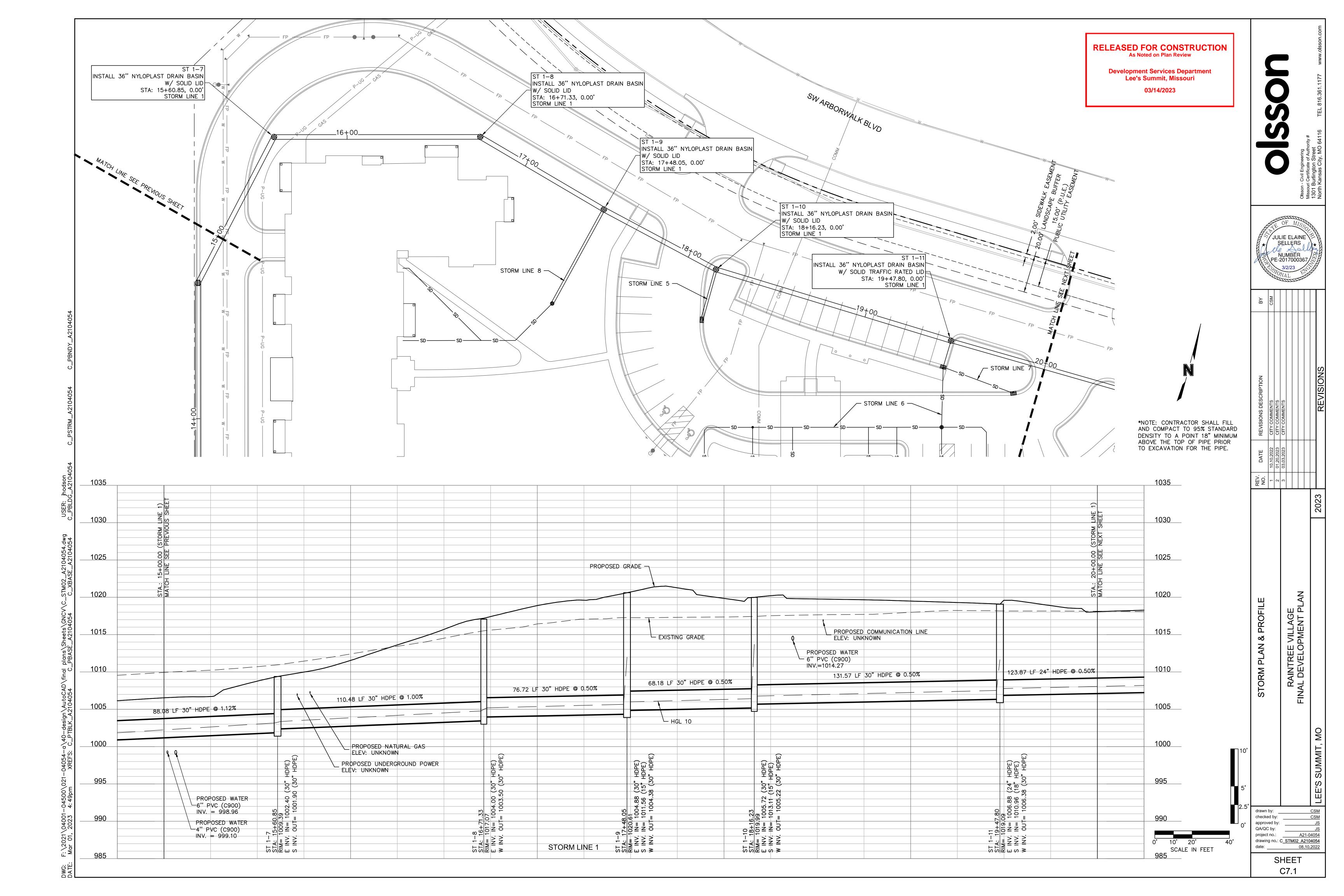


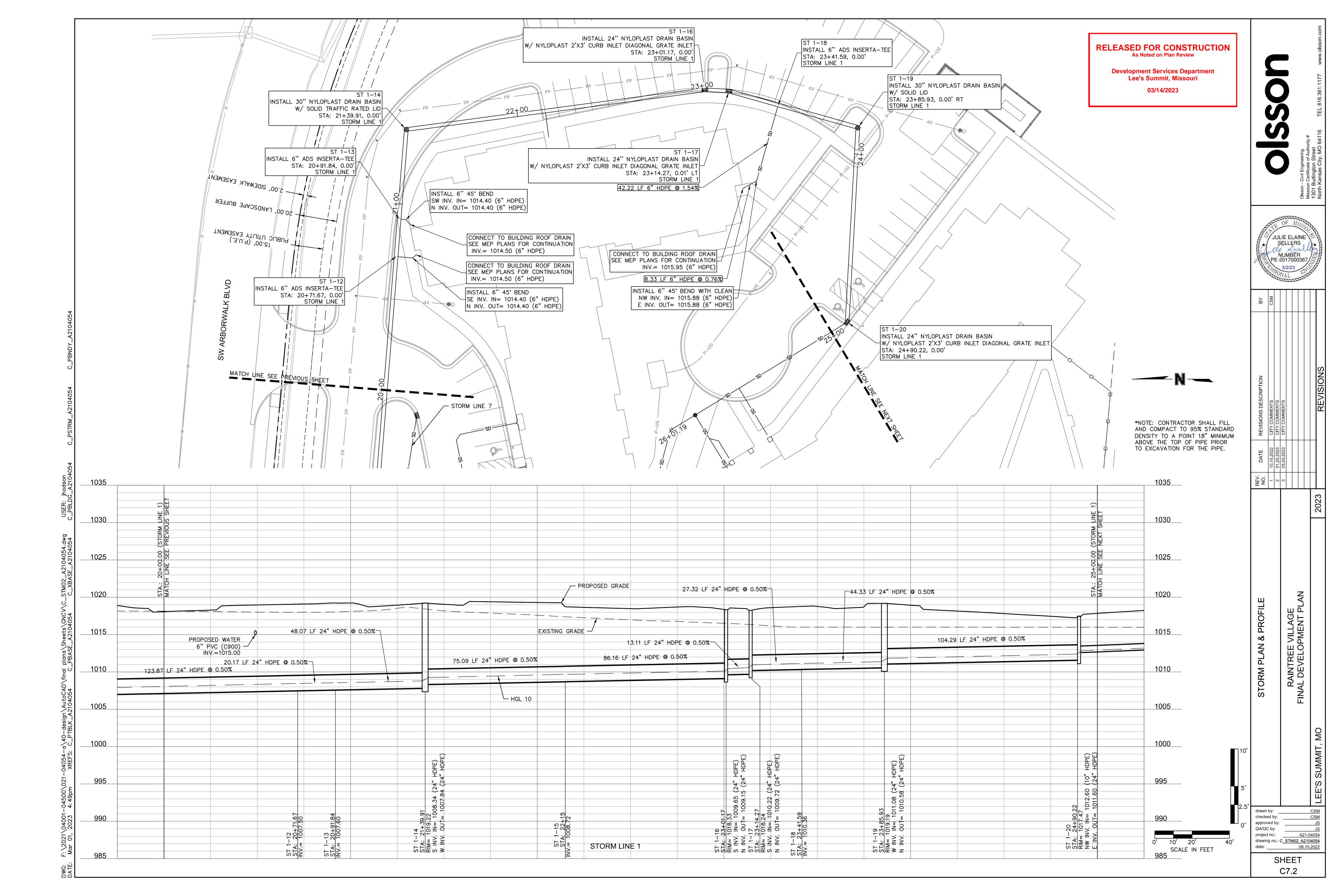


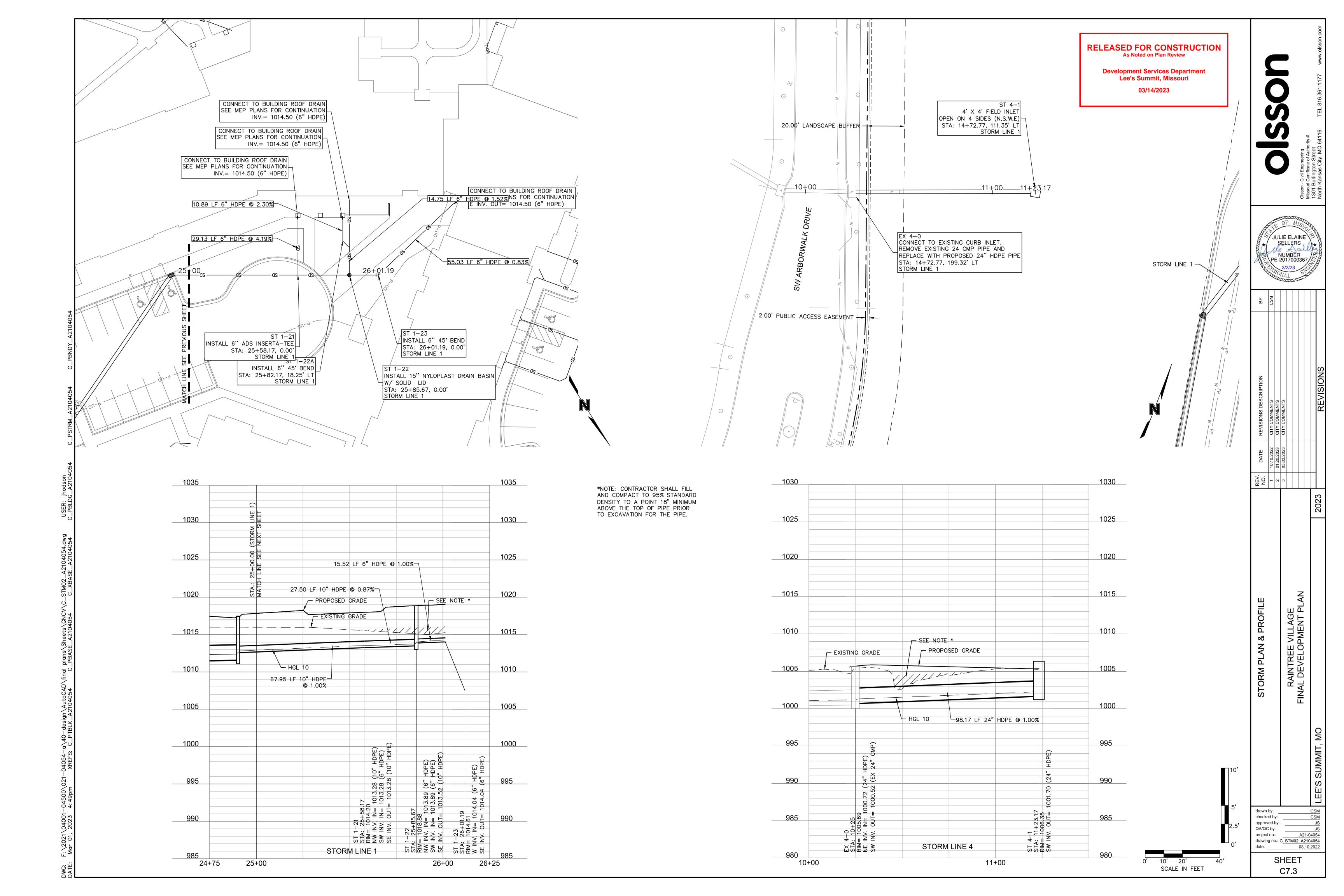


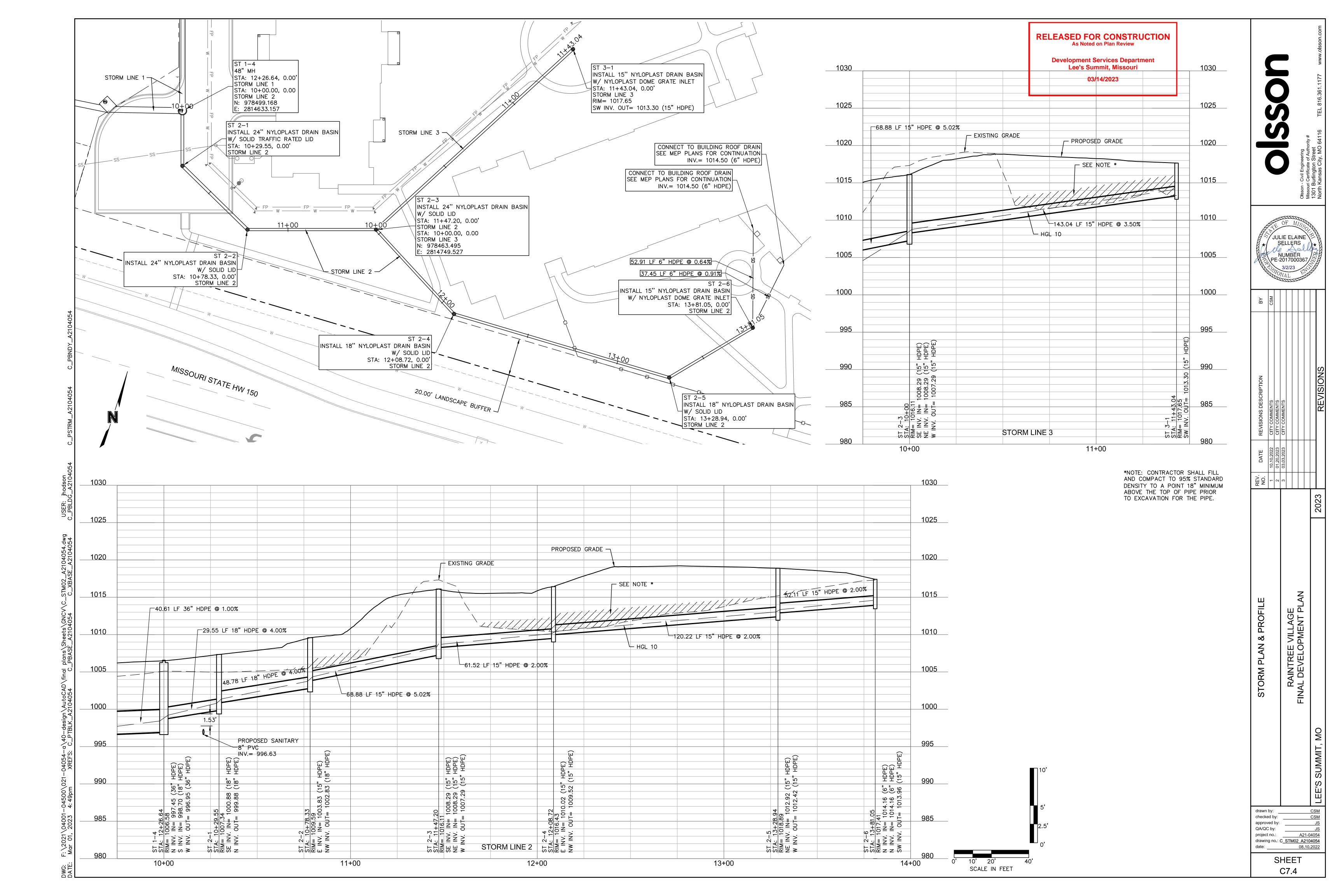
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| REVISIONS DESCRIPTION | CITY COMMENTS | CITY COMMENTS | CITY COMMENTS | | | | REVISIONS | |

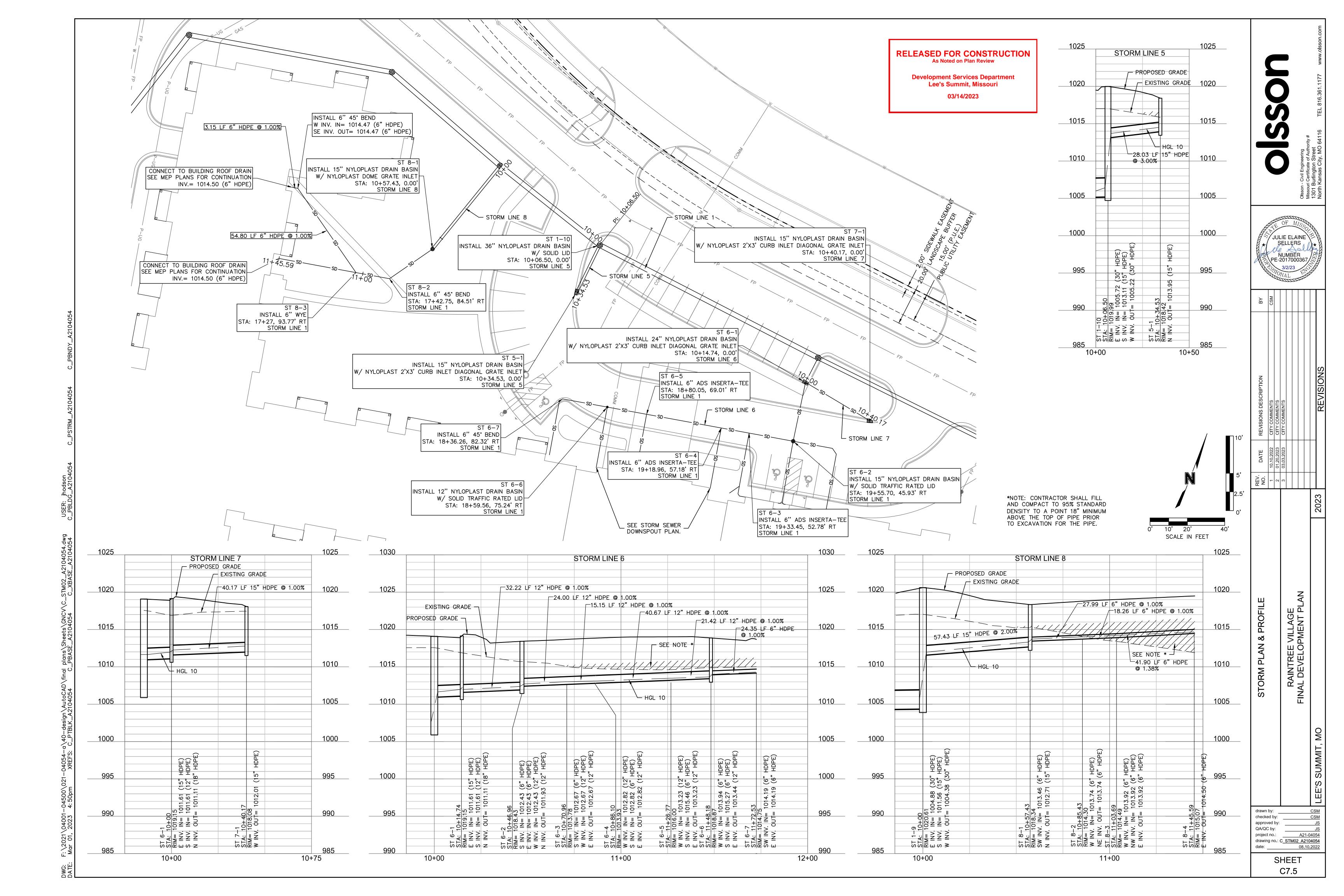


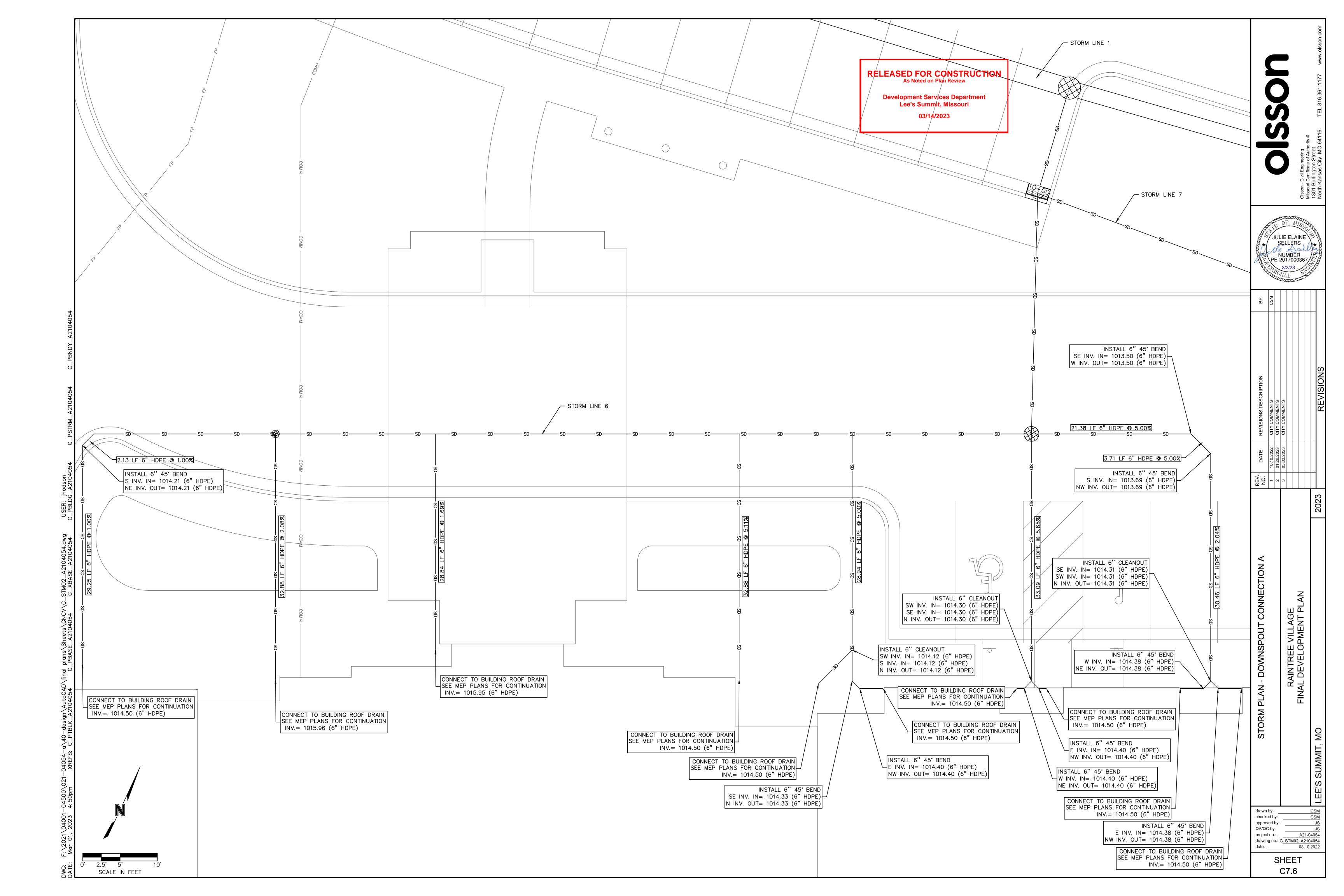










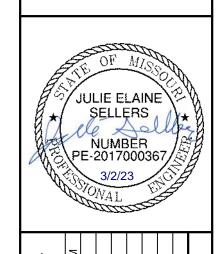


| | | | | | Storm So | war Das | ian Calculat | ion Table | | | | | - |
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| ST 5-1 ST 1-10 28.026 1013.95 1013.11 3 15 0.012 1.92 5.45 12.11 0.34 1014.5 ST 6-1 ST 1-11 14.736 1011.11 1010.96 1.02 18 0.012 4.99 5.52 11.48 0.69 1011.97 ST 6-2 ST 6-1 32.221 1011.93 1011.61 0.99 12 0.012 1.12 3.77 3.84 0.37 1012.37 ST 6-3 ST 6-2 24 1012.67 1012.43 1 12 0.012 0.68 3.27 3.86 0.28 1013.01 ST 6-4 ST 6-3 15.147 1012.82 1012.67 0.99 12 0.012 0.46 2.23 3.84 0.34 1013.1 ST 6-5 ST 6-4 40.665 1013.23 1012.82 1.01 12 0.012 0.36 2.19 3.87 0.28 1013.48 ST 6-6 ST 6-5 21.415 1013.44 1013.23 | 2.00M/ A 1900 DR | POTORIN DE TO | 349636 | ACEDEAL PROPERTY NO | 100.0000000 1000000 | 16 | | 1040404-0044 | 1892 980000 | 9780870203 | Seleggegovas | page and | 1960-025-0-4-0-0-0-0-1 |
| ST 6-1 ST 1-11 14.736 1011.11 1010.96 1.02 18 0.012 4.99 5.52 11.48 0.69 1011.97 ST 6-2 ST 6-1 32.221 1011.93 1011.61 0.99 12 0.012 1.12 3.77 3.84 0.37 1012.37 ST 6-3 ST 6-2 24 1012.67 102.43 1 12 0.012 0.68 3.27 3.86 0.28 1013.01 ST 6-4 ST 6-3 15.147 1012.82 1012.67 0.99 12 0.012 0.46 2.23 3.84 0.34 1013.1 ST 6-5 ST 6-4 40.665 1013.23 1012.82 1.01 12 0.012 0.36 2.19 3.87 0.28 1013.48 ST 6-6 ST 6-5 21.415 1013.44 1013.23 0.98 12 0.012 0.25 1.9 3.82 0.25 1013.65 ST 6-7 ST 6-6 24.351 1014.19 1013.94 | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 030000000000000000000000000000000000000 | | 100-00 Television (100-00) | 9607 | (94000) | ADD HIS SOURCE AND | 80 09400 | SOUTH COATE | Street, Cartes | anger or general | 244,045,04,074,074,022 |
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| ST 6-5 ST 6-4 40.665 1013.23 1012.82 1.01 12 0.012 0.36 2.19 3.87 0.28 1013.48 ST 6-6 ST 6-5 21.415 1013.44 1013.23 0.98 12 0.012 0.25 1.9 3.82 0.25 1013.65 ST 6-7 ST 6-6 24.351 1014.19 1013.94 1.03 6 0.012 0.13 2.26 0.62 0.15 1014.37 ST 7-1 ST 6-1 40.175 1012.01 1011.61 1 15 0.012 3.65 5.17 6.98 0.64 1012.78 ST 8-1 ST 1-9 57.435 1012.71 1011.56 2 15 0.012 2.33 5.25 9.9 0.41 1013.32 ST 8-2 ST 8-1 27.994 1013.74 1013.46 1 6 0.012 0.31 2.93 0.61 0.26 1014.02 ST 8-3 ST 8-2 18.263 1013.74 0.99 6 </td <td></td> <td>The second secon</td> <td>544.3.555</td> <td>120000000000000000000000000000000000000</td> <td></td> <td>5081</td> <td></td> <td>740-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1</td> <td>(</td> <td></td> <td>C-00-5700-45-A</td> <td>400000000000000000000000000000000000000</td> <td>CONTRACTOR AND AND AND AND AND AND AND AND AND AND</td> | | The second secon | 544.3.555 | 120000000000000000000000000000000000000 | | 5081 | | 740-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | (| | C-00-5700-45-A | 400000000000000000000000000000000000000 | CONTRACTOR AND |
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| 200 200 200 200 200 200 200 200 200 200 | | and the second second | | The state of the s | - MAN - DATA SALAN | 100000000000000000000000000000000000000 | | Large Addition of Section | A-800 (800-00) | 200000000000000000000000000000000000000 | | | |
| | ST 8-4 | ST 8-3 | 41.897 | 1013.52 | 1013.74 | 1.38 | 6 | 0.012 | 0.13 | 1.61 | 0.71 | 0.28 | 1014.68 |

| 100 | Year Return Fred | uency | | | | ign Calculat | | | | | | |
|-----------|------------------|---------|----------|------------|-------|--------------|-----------|------------|----------|----------|------------|-------------|
| Upstream | Downstream | | Upstream | Downstream | | | Manning's | | | | | Upstream |
| Structure | Structure | Length | Invert | Invert | Slope | Diameter | n | Total Flow | Velocity | Capacity | Flow Depth | Struct. HGL |
| | | (ft) | (ft) | (ft) | (%) | (in) | | (cfs) | (ft/s) | (cfs) | (ft) | (ft) |
| ST 1-1 | ST P1-3 | 19.372 | 993.44 | 993.24 | 1.03 | 36 | 0.012 | 51.85 | 10.01 | 73.42 | 1.86 | 995.78 |
| ST 1-2 | ST 1-1 | 66.087 | 994.61 | 993.94 | 1.01 | 36 | 0.012 | 52.07 | 9.99 | 72.75 | 1.88 | 996.95 |
| ST 1-3 | ST 1-2 | 92.547 | 996.08 | 995.11 | 1.05 | 36 | 0.012 | 46.27 | 9.21 | 73.97 | 1.84 | 998.29 |
| ST 1-4 | ST 1-3 | 40.614 | 996.95 | 996.58 | 0.91 | 36 | 0.012 | 44.35 | 9.23 | 68.96 | 1.75 | 999.12 |
| ST 1-5 | ST 1-4 | 94.846 | 998.4 | 997.45 | 1 | 36 | 0.012 | 35.24 | 8.04 | 72.31 | 1.67 | 1000.33 |
| ST 1-6 | ST 1-5 | 151.279 | 1000.41 | 998.9 | 1 | 36 | 0.012 | 31.34 | 8.23 | 72.18 | 1.43 | 1002.22 |
| ST 1-7 | ST 1-6 | 88.08 | 1001.9 | 1000.91 | 1.12 | 30 | 0.012 | 28.49 | 8.75 | 47.1 | 1.4 | 1003.72 |
| ST 1-8 | ST 1-7 | 110.483 | 1003.5 | 1002.4 | 1 | 30 | 0.012 | 28.76 | 8.54 | 44.33 | 1.47 | 1005.33 |
| ST 1-9 | ST 1-8 | 76.719 | 1004.38 | 1004 | 0.5 | 30 | 0.012 | 28.94 | 7.23 | 31.27 | 1.9 | 1006.28 |
| ST 1-10 | ST 1-9 | 68.177 | 1005.22 | 1004.88 | 0.5 | 30 | 0.012 | 25.49 | 7.07 | 31.37 | 1.72 | 1006.94 |
| ST 1-11 | ST 1-10 | 131.568 | 1006.38 | 1005.72 | 0.5 | 30 | 0.012 | 22.97 | 6.89 | 31.47 | 1.59 | 1008.01 |
| ST 1-12 | ST 1-11 | 123.87 | 1007.5 | 1006.88 | 0.5 | 24 | 0.012 | 14.21 | 6.16 | 17.33 | 1.38 | 1008.88 |
| ST 1-13 | ST 1-12 | 20.174 | 1007.6 | 1007.5 | 0.5 | 24 | 0.012 | 14.04 | 5.27 | 17.25 | 1.61 | 1009.15 |
| ST 1-14 | ST 1-13 | 48.072 | 1007.84 | 1007.6 | 0.5 | 24 | 0.012 | 13.92 | 5.01 | 17.31 | 1.73 | 1009.43 |
| ST 1-15 | ST 1-14 | 75.093 | 1008.72 | 1008.34 | 0.51 | 24 | 0.012 | 14.04 | 6.18 | 17.43 | 1.36 | 1010.08 |
| ST 1-16 | ST 1-15 | 86.161 | 1009.15 | 1008.72 | 0.5 | 24 | 0.012 | 14.07 | 5.68 | 17.31 | 1.6 | 1010.52 |
| ST 1-17 | ST 1-16 | 13.107 | 1009.72 | 1009.65 | 0.53 | 24 | 0.012 | 11.08 | 5.83 | 17.9 | 1.14 | 1010.91 |
| ST 1-18 | ST 1-17 | 27.321 | 1010.36 | 1010.22 | 0.51 | 24 | 0.012 | 9.33 | 5.5 | 17.54 | 1.04 | 1011.45 |
| ST 1-19 | ST 1-18 | 44.334 | 1010.58 | 1010.36 | 0.5 | 24 | 0.012 | 9.3 | 5.32 | 17.26 | 1.09 | 1011.67 |
| ST 1-20 | ST 1-19 | 104.293 | 1011.6 | 1011.08 | 0.5 | 24 | 0.012 | 9.47 | 5.49 | 17.3 | 1.06 | 1012.7 |
| ST 1-21 | ST 1-20 | 67.95 | 1013.28 | 1012.6 | 1 | 10 | 0.012 | 0.66 | 3.34 | 2.37 | 0.3 | 1013.64 |
| ST 1-22 | ST 1-21 | 27.501 | 1013.52 | 1013.28 | 0.87 | 10 | 0.012 | 0.45 | 2.32 | 2.22 | 0.36 | 1013.81 |
| ST 1-23 | ST 1-22 | 15.517 | 1014.04 | 1013.89 | 0.97 | 6 | 0.012 | 0.23 | 2.64 | 0.6 | 0.21 | 1014.28 |
| ST 2-1 | ST 1-4 | 29.549 | 999.88 | 998.7 | 3.99 | 18 | 0.012 | 10.75 | 9.74 | 22.73 | 0.73 | 1001.14 |
| ST 2-2 | ST 2-1 | 48.776 | 1002.83 | 1000.88 | 4 | 18 | 0.012 | 10.8 | 9.76 | 22.75 | 0.73 | 1004.09 |
| ST 2-3 | ST 2-2 | 68.879 | 1007.29 | 1003.83 | 5.02 | 15 | 0.012 | 10.84 | 11.37 | 15.68 | 0.76 | 1008.49 |
| ST 2-4 | ST 2-3 | 61.517 | 1009.52 | 1008.29 | 2 | 15 | 0.012 | 4.42 | 6.4 | 9.89 | 0.59 | 1010.37 |
| ST 2-5 | ST 2-4 | 120.22 | 1012.42 | 1010.02 | 2 | 15 | 0.012 | 4.5 | 6.44 | 9.88 | 0.59 | 1013.28 |
| ST 2-6 | ST 2-5 | 52.11 | 1013.96 | 1012.92 | 2 | 15 | 0.012 | 4.54 | 6.45 | 9.88 | 0.59 | 1014.82 |
| ST 3-1 | ST 2-3 | 143.036 | 1013.3 | 1008.29 | 3.5 | 15 | 0.012 | 7.07 | 8.61 | 13.09 | 0.65 | 1014.36 |
| ST 4-1 | EX 4-0 | 98 | 1001.7 | 1000.72 | 1 | 24 | 0.012 | 5.53 | 5.39 | 24.5 | 0.65 | 1002.53 |
| ST 5-1 | ST 1-10 | 28.026 | 1013.95 | 1013.11 | 3 | 15 | 0.012 | 3.38 | 6.46 | 12.11 | 0.45 | 1014.69 |
| ST 6-1 | ST 1-11 | 14.736 | 1011.11 | 1010.96 | 1.02 | 18 | 0.012 | 9.51 | 6.79 | 11.48 | 1.04 | 1012.3 |
| ST 6-2 | ST 6-1 | 32.221 | 1011.93 | 1011.61 | 0.99 | 12 | 0.012 | 2.11 | 3.89 | 3.84 | 0.69 | 1012.55 |
| ST 6-3 | ST 6-2 | 24 | 1012.67 | 1012.43 | 1 | 12 | 0.012 | 1.28 | 3.93 | 3.86 | 0.4 | 1013.15 |
| ST 6-4 | ST 6-3 | 15.147 | 1012.82 | 1012.67 | 0.99 | 12 | 0.012 | 0.86 | 2.69 | 3.84 | 0.48 | 1013.21 |
| ST 6-5 | ST 6-4 | 40.665 | 1013.23 | 1012.82 | 1.01 | 12 | 0.012 | 0.66 | 2.59 | 3.87 | 0.39 | 1013.57 |
| ST 6-6 | ST 6-5 | 21.415 | 1013.44 | 1013.23 | 0.98 | 12 | 0.012 | 0.45 | 2.23 | 3.82 | 0.34 | 1013.72 |
| ST 6-7 | ST 6-6 | 24.351 | 1014.19 | 1013.94 | 1.03 | 6 | 0.012 | 0.23 | 2.68 | 0.62 | 0.21 | 1014.43 |
| ST 7-1 | ST 6-1 | 40.175 | 1012.01 | 1011.61 | 1 | 15 | 0.012 | 6.4 | 6.21 | 6.98 | 0.94 | 1013.03 |
| ST 8-1 | ST 1-9 | 57.435 | 1012.71 | 1011.56 | 2 | 15 | 0.012 | 4.2 | 6.3 | 9.9 | 0.57 | 1013.54 |
| ST 8-2 | ST 8-1 | 27.994 | 1013.74 | 1013.46 | 1 | 6 | 0.012 | 0.57 | 3.51 | 0.61 | 0.38 | 1014.12 |
| ST 8-3 | ST 8-2 | 18.263 | 1013.74 | 1013.74 | 0.99 | 6 | 0.012 | 0.57 | 3.49 | 0.6 | 0.39 | 1014.31 |
| ST 8-4 | ST 8-3 | 41.897 | 1013.52 | 1013.74 | 1.38 | 6 | 0.012 | 0.23 | 1.85 | 0.71 | 0.46 | 1014.74 |

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 03/14/2023

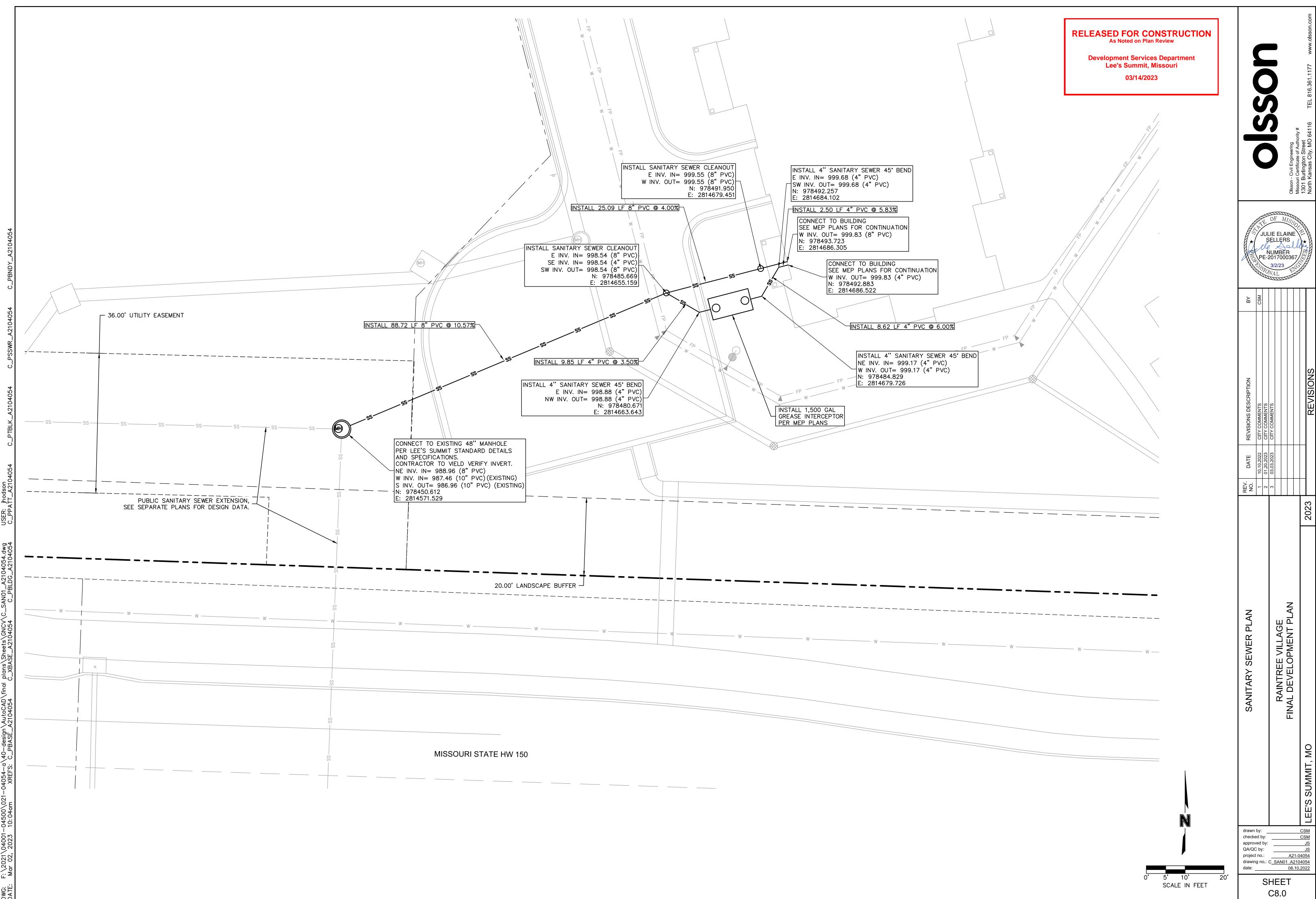


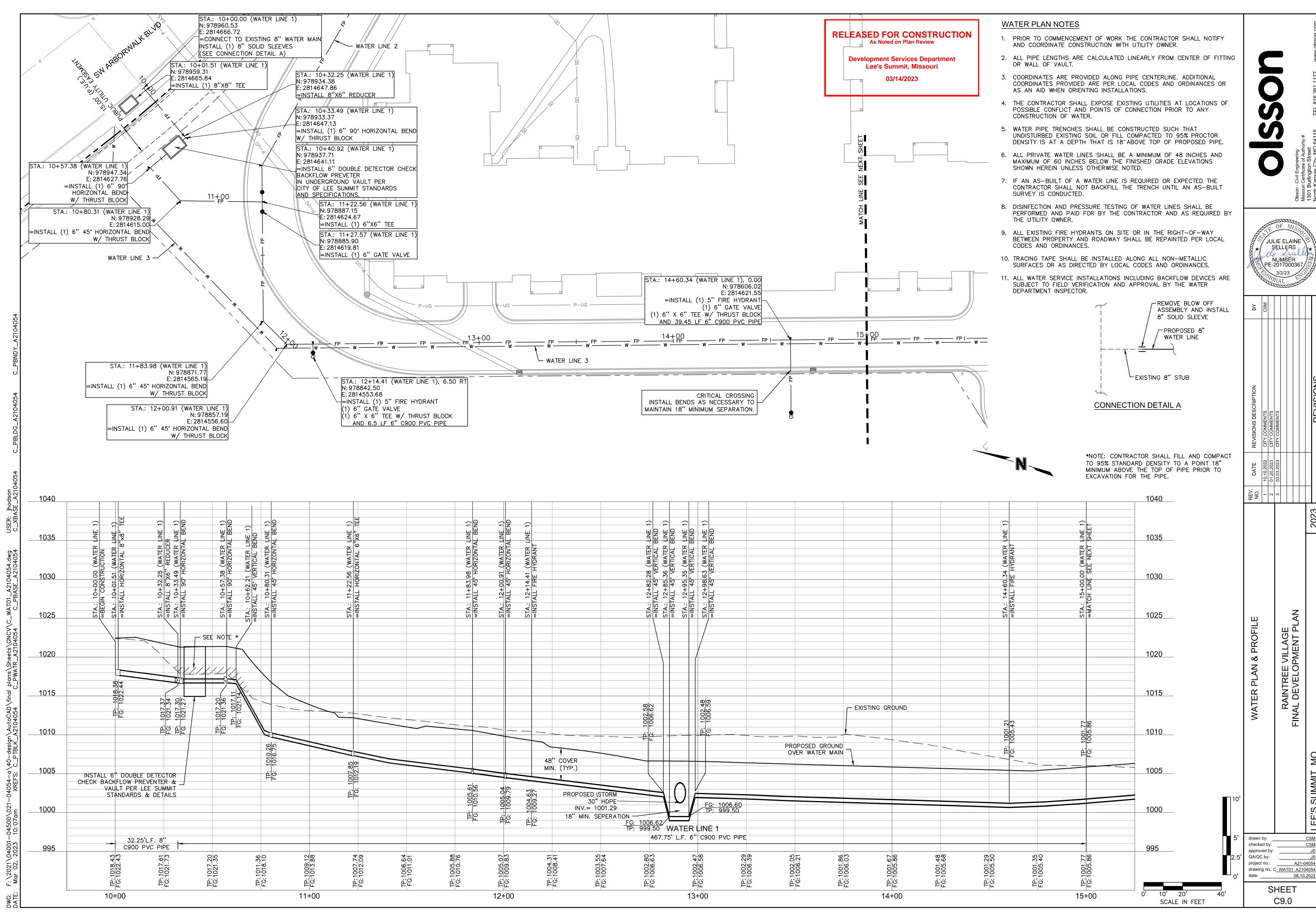
| V. DATE 10.10.2022 01.20.2023 03.03.2023 | REV. NO. 3 |
|---|--|
| REVISIONS DESCRIPTION CITY COMMENTS CITY COMMENTS CITY COMMENTS | DATE REVISION: 10.10.2022 CITY COMIN 01.20.2023 CITY COMIN 03.03.2023 CITY COMIN |
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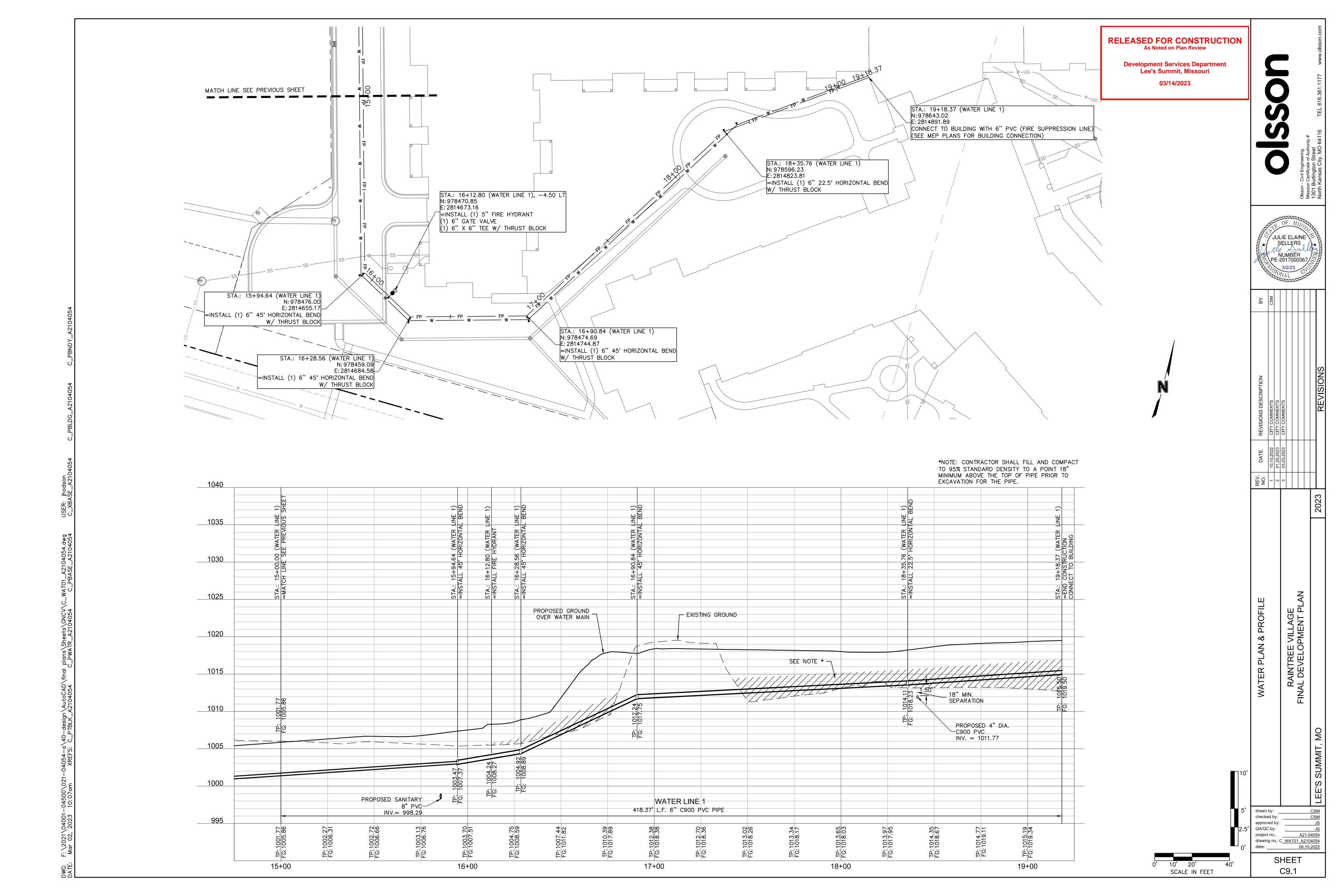
| STORM DESIGN TABLES | RAINTREE VILLAGE FINAL DEVELOPMENT PLAN | |
|---------------------|--|----------|
| STO | R/ FINAL | MMIT. MO |

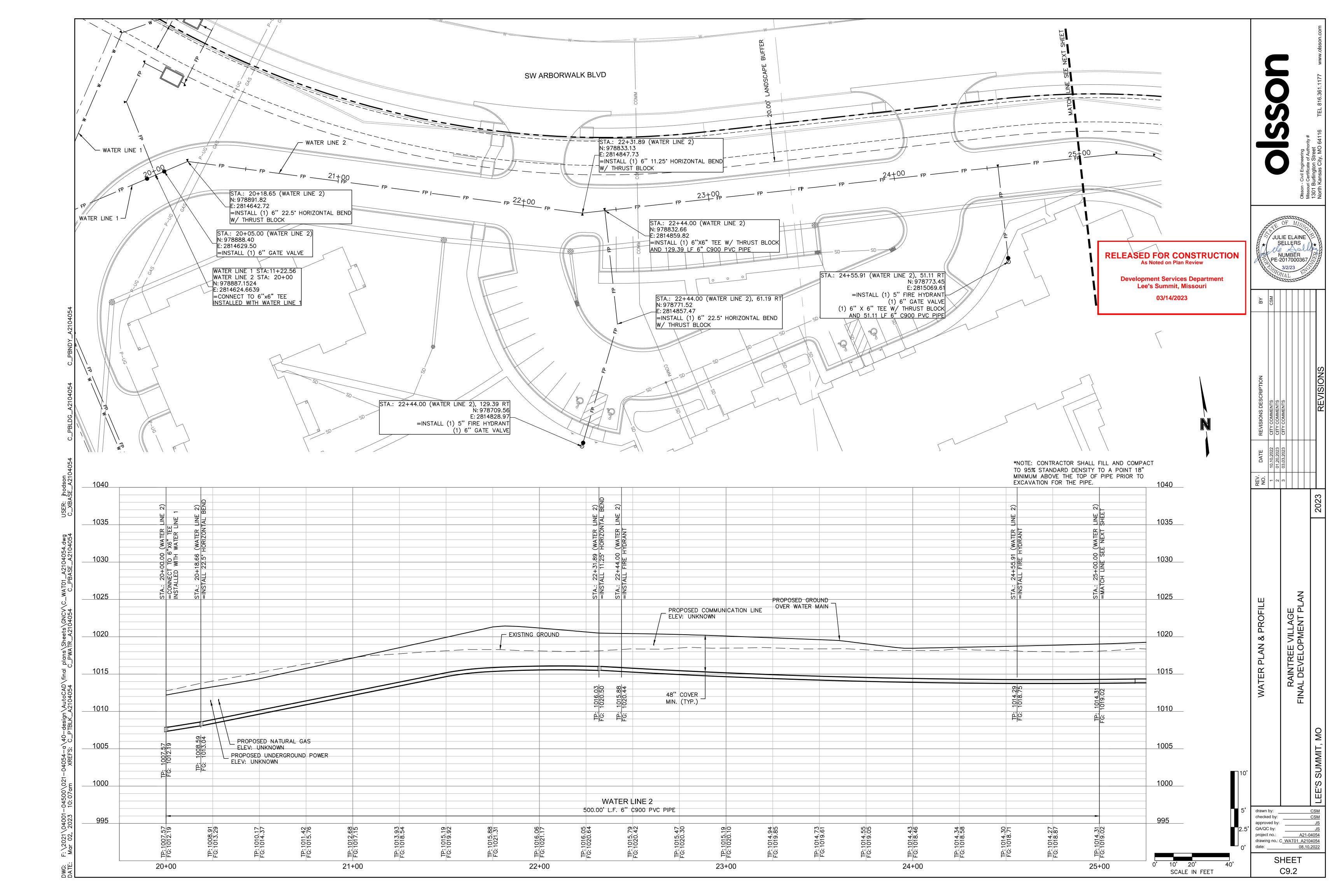
drawn by: checked by: approved by: QA/QC by: JS
project no.: A21-04054
drawing no.: C STM04 A2104054
date: 08.10.2022

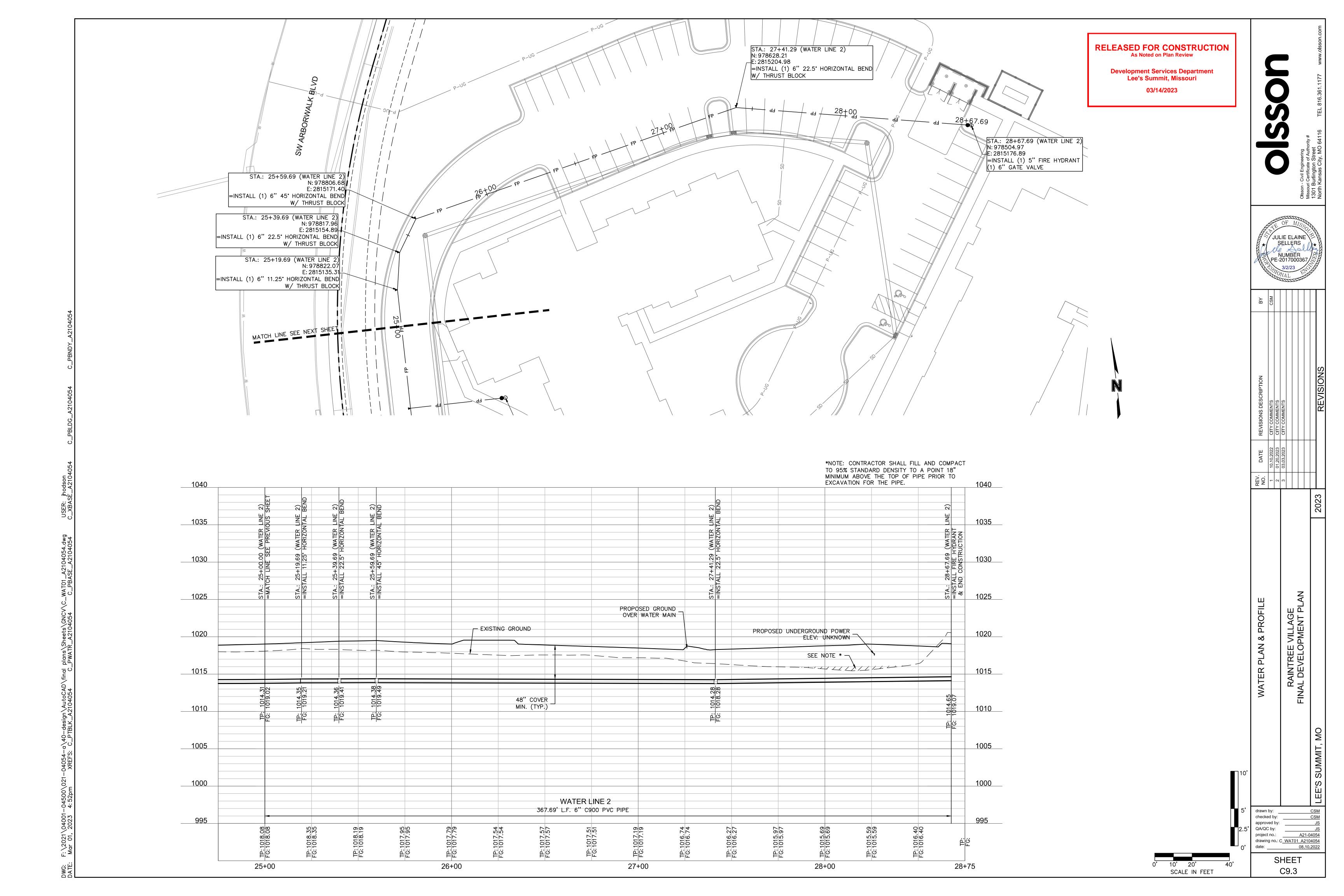
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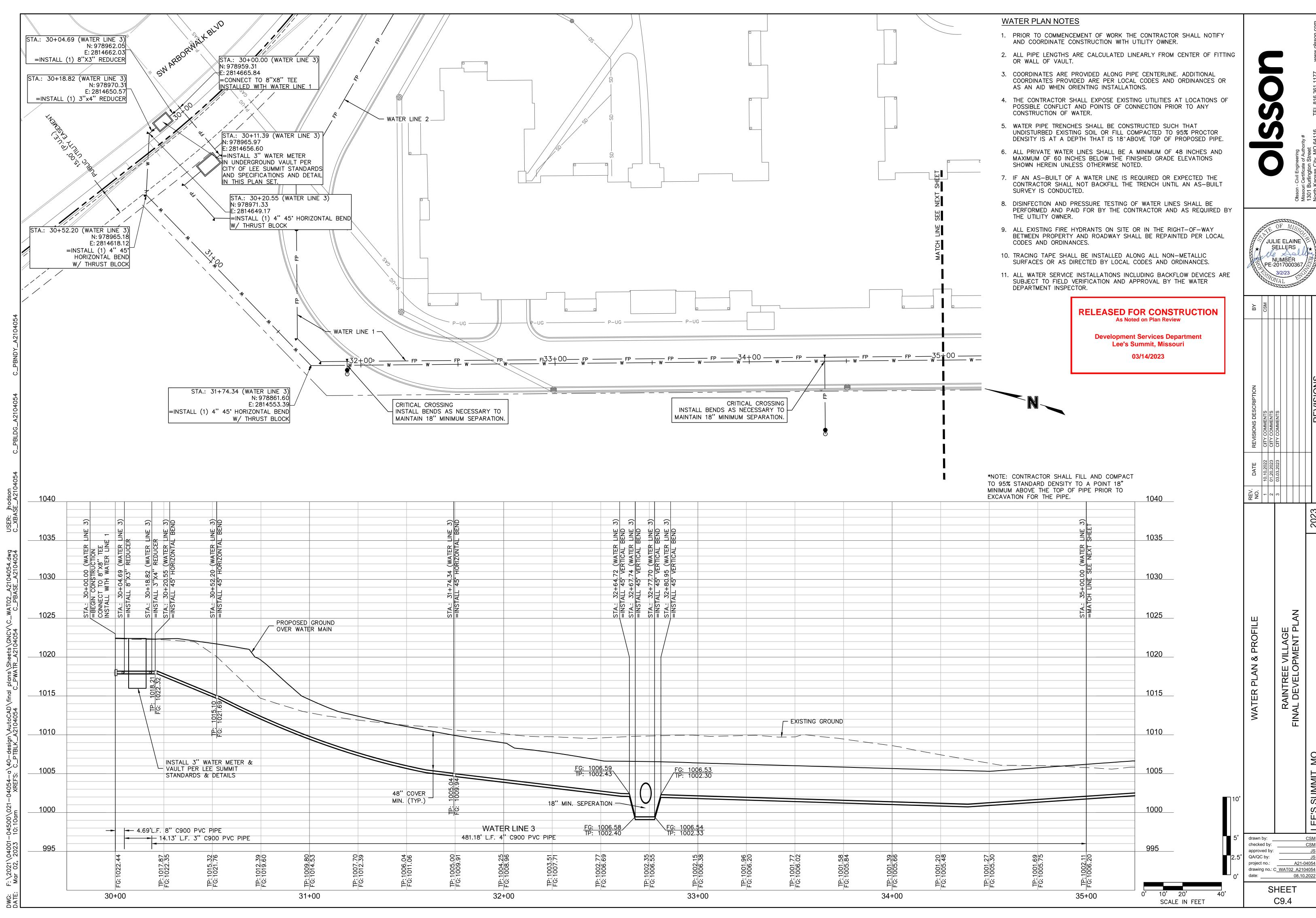


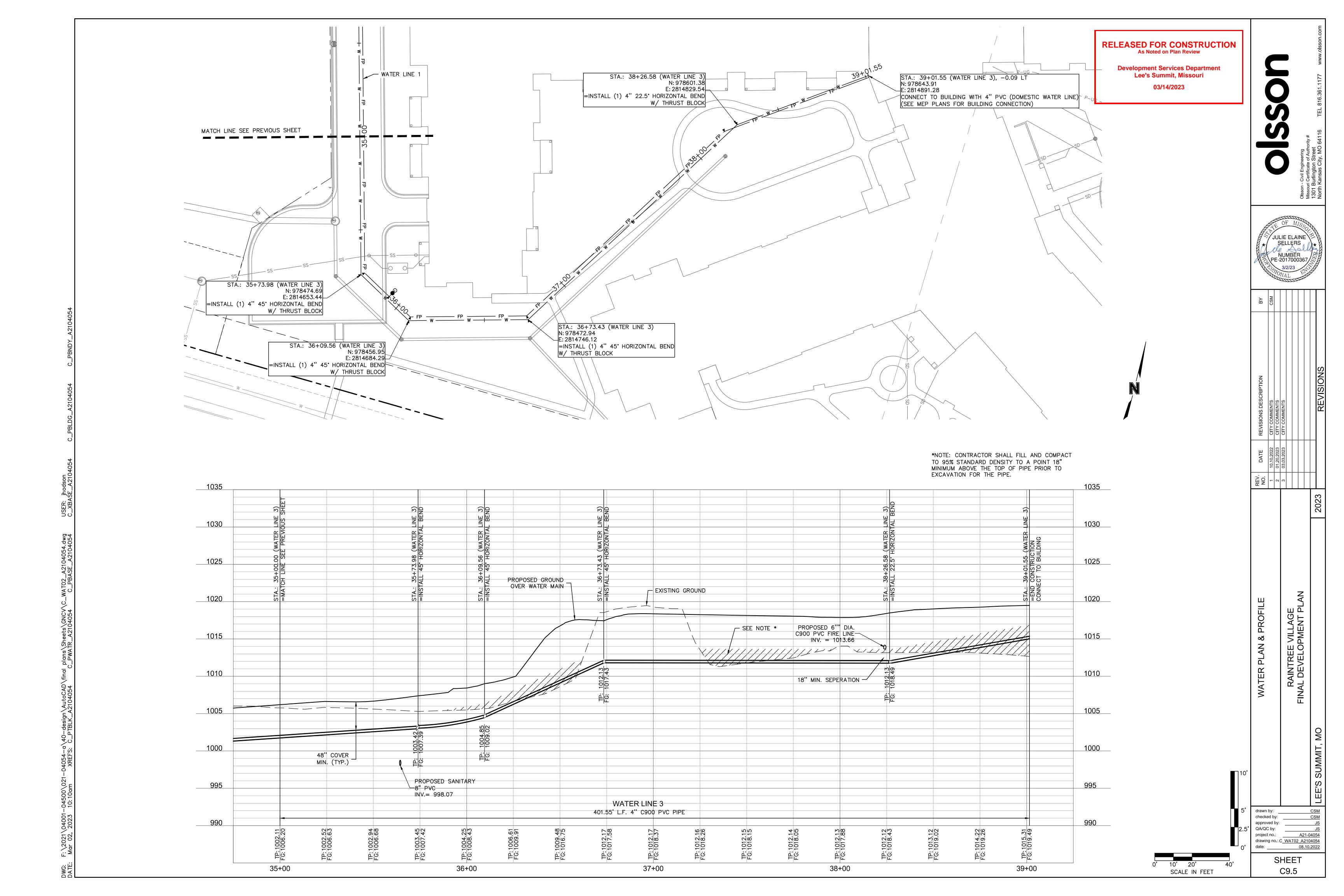


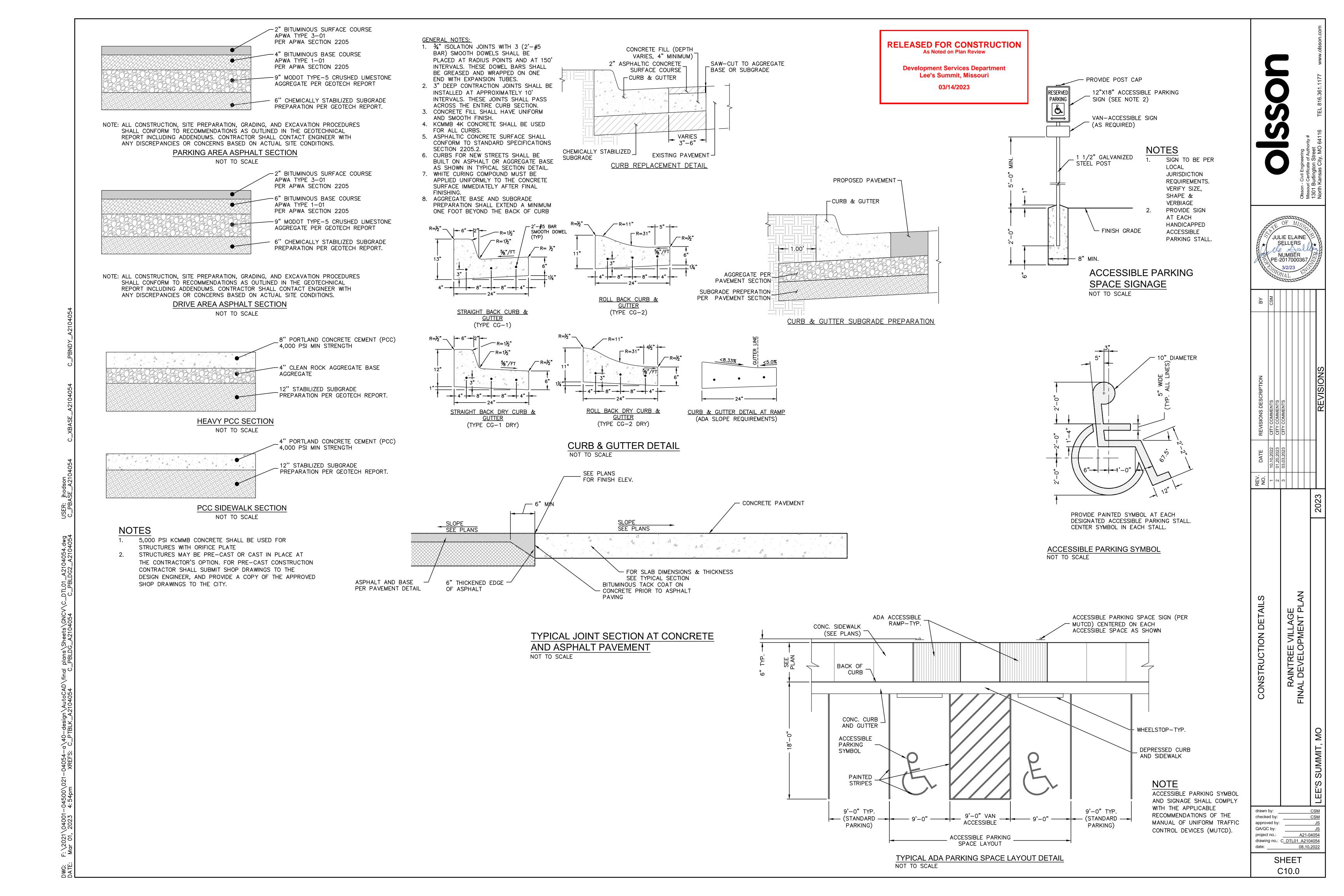






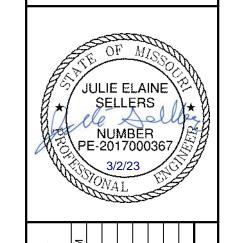






RELEASED FOR CONSTRUCTION As Noted on Plan Review

> **Development Services Department** Lee's Summit, Missouri 03/14/2023



| | REV. NO. | DATE | REVISIONS DESCRIPTION | ВҮ |
|---|-------------|------------|-----------------------|-----|
| | - | 10.10.2022 | CITY COMMENTS | CSM |
| | 2 | 01.20.2023 | CITY COMMENTS | |
| | 3 | 03.03.2023 | CITY COMMENTS | |
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| | | | | |
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| 3 | | | REVISIONS | |

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|----|---|---|
| | | |
| | NOTES: | |
| 1. | VAULT WILL BE LOCATED IN NON-TRAFFIC, NON-PEDESTRIAN AREA. VAULT LID AT GRADE AND FULLY EXPOSED PRE APPROVAL OF THE VAULT LOCATION WILL BE OBTAINED FROM THE SITE INSPECTION BY WATER DIST. NO. 1 PERSONNEL | |

5. ALL MATERIAL FOR THE INSTALLATION WILL BE PROVIDED BY THE APPLICANT EXCEPT MATERIAL NOTED ON DRAWING BY (WATER DIST. NO.1), PAID FOR BY THE APPLICANT

2. THE SERVICE LINE FROM MAIN TO PROPERTY LINE SHALL BE 6" CML DUCTILE IRON PIPE PC350 WRAPPED WITH 8 MIL POLYWRAP, OR DR18 C900 OR 4710 DR11 C906 HDPE (IF USING LARGER THAN 4" PIPE FOR A 4" METER, THEN REDUCER ELBOWS ARE REQUIRED AS SHOWN, AND PROPER SIZE OF METER VAULT TO BE USED FOR SIZE OF PIPE).

3. STRUCTURAL MEMBERS OF THE VAULT SHALL BE DESIGN BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER AND PRE APPROVED BY DISTRIBUTION ENGINEERING

4. PRECAST CONCRETE VAULT AND LID DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IS ACCEPTABLE. SHOP DRAWINGS OF THE VAULT SHALL BE SUBMITTED FOR APPROVAL TO WATER DIST. NO.1 DISTRIBUTION SERVICES DEPT.

6. ALL PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINED, FLANGED, DUCTILE IRON PIPE. 7. VALVES INSIDE VAULT SHALL BE MUELLER 2360 SERIES, AMERICAN FLOW CONTROL 2500 SERIES, AMERICAN AVK 65 SERIES, EAST JORDAN FLOWMASTER SERIES, OR CLOW 2638 SERIES, OPEN LEFT. CANNOT USE RISING STEM VALVES.

8. BY PASS VALVE, METER INLET VALVE, AND OUTLET VALVE TO BE ROTATED 90° TOWARD MANHOLE SIDE OF VAULT. 9. FLANGED COUPLING ADAPTOR AT METER OUTLET FLANGE SUPPLIED BY WATER DIST. NO.1 (FLANGE IS APPROX. 5" IN LENGTH. A 12" SPOOL PIECE CUT TO SIZE AS REQUIRED TO CONNECT FROM FLANGE COUPLING ADAPTOR TO ELBOW)

10. STEPS SHALL BE ON FLOW INLET END OF VAULT. (5 STEPS REQUIRED)
POLYPROPYLENE STEPS SHALL BE CAST IN PLACE OR GROUTED IN PLACE IN
PRE-DRILLED HOLES, NOT DRIVEN IN PLACE.

11. IF METER VAULT CANNOT BE PLACED AT PROPERTY LINE, WITHIN AN EASEMENT OR AT A MAXIMUM DISTANCE OF 15' FROM THE MAIN, THEN A SECOND VALVE SHALL BE REQUIRED BETWEEN TAP AND METER VAULT.

12. (THE MATERIAL ORIGINALLY SUPPLIED IS FOR A MAIN WITH A DEPTH BETWEEN 42"-60"). IF THE MAIN IS MORE THAN 60" DEEP, THEN A VALVE BOX ALTERNATIVE WILL BE NEEDED BY FOLLOWING THE STEPS LISTED BELOW:

A. RETURN LID, LONG TOP AND SHORT BOTTOM OF THE STANDARD VALVE BOX ISSUED, TO WATER DIST. MATERIAL MANAGEMENT DEPARTMENT FOR EXCHANGE.

B. MATERIAL MANAGEMENT DEPARTMENT WILL ISSUE ALTERNATIVE VALVE BOX MATERIALS (58—A VALVE BOX EXTENSION AND CLAY & BAILEY #2194 LID) USED WITH A PVC RISER PIPE. (COST DIFFERENCE MUST BE PAID AT TIME OF EXCHANGE) OF EXCHANGE)

C. RISER PIPE FOR VALVE BOX TO BE 6" CLASS 200 PVC PIPE CUT TO FIT FINAL GRADE. (RISER PIPE SUPPLIED BY CONTRACTOR)

13. APPLICANT WILL EXCAVATE TAP HOLE ACCORDING TO OSHA REGULATION 29 C.F.R. XVII PART 1926 AS AMENDED P-EXCAVATION 14. NO OTHER EQUIPMENT OF ANY DESCRIPTION SHALL BE INSTALLED OR STORED IN VAULT.

15. SUBJECT TO REVISION WITHOUT NOTICE.

| 3" & 4" METER SERVICE CONNECTI |
|--------------------------------|
| STANDARD INSTALLATION |

08.10.2022 SHEET

drawing no.: C_DTL01_A2104054

A21-04054

C10.1

drawn by:

checked by:

approved by:

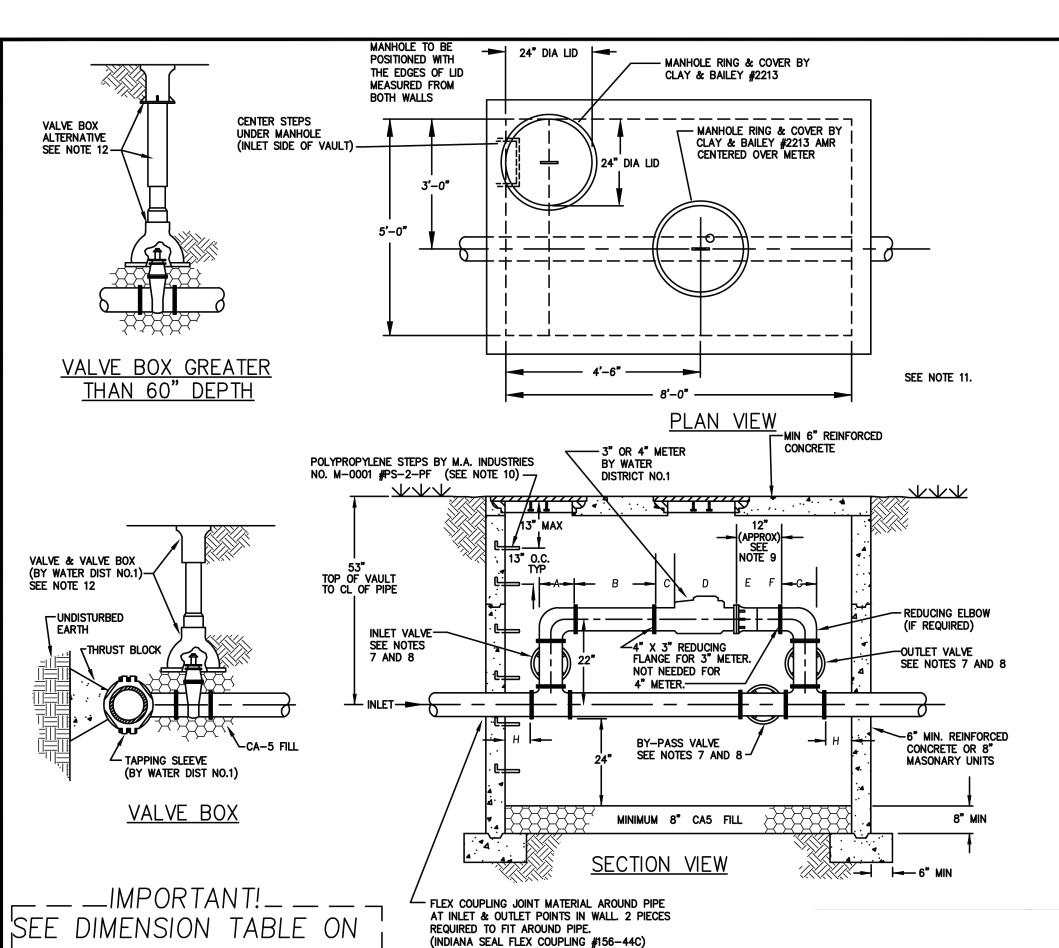
QA/QC by:

project no.:

CONSTRUCTION DETAILS

RAINTREE VILLAGE FINAL DEVELOPMENT PL

| 3" METER LAYOUT DIMENSIONS | A | В | С | D | E | F | G | н | Total Laying Length | Vault | OD Pipe |
|---|----------------------------|----------------------|-------------------------|----------------|------------------------|-----------------------|---------------------------|-------------------------|---|---------------------------|--|
| | | | | | | | | Edge | | | |
| | | | | | | | | Vault To | | | |
| Meter (and strainer) Lay Length | 4x3 90 | Upstream | Strainer | Meter | FxMJ SB911 | 15" Spool | 4x3 90 | Risers | C/L Inlet to Outlet | Inside Length | to C/L |
| 3" Compound Sensus | 6.5 | 15 | 0 | 17 | 7.88 | 12 | 6.5 | 13.2 | 64.9 | 96 | 4.8 |
| 3" Compound Neptune | 6.5 | 15 | 6 | 17 | 7.88 | 12 | 6.5 | 10.2 | 70.9 | 96 | 4.8 |
| 3" Compound Badger | 6.5 | 15 | 7 | 17 | 7.88 | 12 | 6.5 | 9.7 | 71.9 | 96 | 4.8 |
| 3" Turbine Sensus | 6.5 | 15 | 0 | 19 | 7.88 | 12 | 6.5 | 12.2 | 66.9 | 96 | 4.8 |
| 3" Turbine Neptune | 6.5 | 15 | 6 | 12 | 7.88 | 12 | 6.5 | 12.7 | 65.9 | 96 | 4.8 |
| 3" Turbine Badger | 6.5 | 15 | 7 | 12 | 7.88 | 12 | 6.5 | 12.2 | 66.9 | 96 | 4.8 |
| | • | | | | | | | | | | Approx |
| | | | | | | | | | | | Approx |
| 4" METER LAYOUT DIMENSIONS | Α | В | С | D | E | F | G | Edge Vault | Total Laying Length | Vault | OD Pipe |
| 4" METER LAYOUT DIMENSIONS Meter (and strainer) Lay Length | A 4" 90 | B Upstream | C Strainer | D Meter | E FxMJ SB911 | F 15" Spool | G 6"90 | Edge Vault To Risers | Total Laying Length C/L Inlet to Outlet | Vault Inside Length | |
| | | | | | _ | <u> </u> | | | | | OD Pipe |
| Meter (and strainer) Lay Length | 4" 90 | Upstream | Strainer | Meter | FxMJ SB911 | 15" Spool | 6"90 | To Risers | C/L Inlet to Outlet | Inside Length | OD Pipe to C/L |
| Meter (and strainer) Lay Length 4" Compound Sensus | 4" 90 6.5 | Upstream 20 | Strainer 0 | Meter 20 | FxMJ SB911 7.88 | 15" Spool | 6"90 6.5 | To Risers 9.2 | C/L Inlet to Outlet 72.9 | Inside Length 96 | OD Pipe to C/L 4.8 |
| Meter (and strainer) Lay Length 4" Compound Sensus 4" Compound Neptune | 4" 90 6.5 6.5 | Upstream 20 20 | Strainer 0 7.5 | Meter 20 20 | 7.88 7.88 | 15" Spool 12 12 | 6"90 6.5 6.5 | 9.2 5.4 | C/L Inlet to Outlet 72.9 80.4 | Inside Length 96 96 | OD Pipe to C/L 4.8 4.8 |
| Meter (and strainer) Lay Length 4" Compound Sensus 4" Compound Neptune 4" Compound Badger | 4" 90 6.5 6.5 6.5 | 20 20 20 20 | Strainer 0 7.5 9 | Meter 20 20 20 | 7.88 7.88 7.88 | 15" Spool 12 12 12 | 6"90 6.5 6.5 6.5 | 9.2 5.4 4.7 | C/L Inlet to Outlet 72.9 80.4 81.9 | 96 96 96 | OD Pipe to C/L 4.8 4.8 4.8 |



PREVIOUS PAGE

| TREES | CODE | <u>QTY</u> | BOTANICAL / COMMON NAME | <u>SIZE</u> | CALIPER |
|---------------------------------------|---------|------------|---|-------------|---------|
| | AX | 23 | ACER TRUNCATUM X PLATANOIDES 'WARRENRED' TM PACIFIC SUNSET MAPLE | B & B | 3" |
| | GA | 15 | GINKGO BILOBA 'AUTUMN GOLD' TM AUTUMN GOLD MAIDENHAIR TREE | B & B | 3" |
| | LS | 9 | LIQUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE' SLENDER SILHOUETTE SWEET GUM | В&В | 3" |
| | TM | 11 | TILIA AMERICANA 'MCKSENTRY' TM AMERICAN SENTRY LINDEN | B & B | 3" |
| | ZG | 10 | ZELKOVA SERRATA 'GREEN VASE' GREEN VASE SAWLEAF ZELKOVA | B & B | 3" |
| ORNAMENTAL TREES | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | CALIPER |
| \odot | AG | 11 | AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE APPLE SERVICEBERRY | B & B | 3" |
| | CE | 12 | CERCIS CANADENSIS EASTERN REDBUD MULTI-TRUNK | В&В | 3" |
| (i) | СК | 13 | CORNUS KOUSA KOUSA DOGWOOD | B&B, 8` HT. | |
| EVERGEEN TREES | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | |
| | PA | 4 | PICEA ABIES NORWAY SPRUCE | B&B, 8` HT. | |
| | PC | 7 | PICEA PUNGENS COLORADO SPRUCE | B&B, 8` HT. | |
| Adamara Care | PS | 9 | PINUS STROBUS WHITE PINE | B&B, 8` HT. | |
| SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | |
| + | BB2 | 11 | BOUTELOUA GRACILIS 'BLONDE AMBITION' BLONDE AMBITION BLUE GRAMA | 1 GAL | |
| + | ВВ | 14 | BUDDLEJA X 'BLUE CHIP JR.' TM BLUE CHIP JR. LO & BEHOLD BUTTERFLY BUSH | 2 GAL | |
| | BG2 | 34 | BUXUS X 'GREEN VELVET' GREEN VELVET BOXWOOD | 3 GAL | |
| + | CK2 | 87 | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS | 1 GAL | |
| £3 | DD | 17 | DEUTZIA X 'NCDX2' TM YUKI CHERRY BLOSSOM DEUTZIA | 2 GAL | |
| \$ | Hem oro | 34 | HEMEROCALLIS X 'STELLA DE ORO' STELLA DE ORO DAYLILY | 4" POT | |
| (+) | HJ | 18 | HYDRANGEA PANICULATA 'JANE' TM LITTLE LIME PANICLE HYDRANGEA | 3 GAL | |
| \bigoplus | IS | 29 | ITEA VIRGINICA 'SPRICH' TM LITTLE HENRY SWEETSPIRE | 3 GAL | |
| ** * | JF | 49 | JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER | 3 GAL | |
| + | JO | 24 | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR | 3 GAL | |
| (+) | PL | 27 | PHYSOCARPUS OPULIFOLIUS 'LITTLE DEVIL' TM LITTLE DEVIL DWARF NINEBARK | 3 GAL | |
| + | ST | 23 | SPOROBOLUS HETEROLEPIS 'TARA' TARA PRAIRIE DROPSEED | 1 GAL | |
| GROUND COVERS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | TD | 25,163 SF | TURF SEED (SANITARY SEWER EXTENSION RESEED) | SEED | |
| \downarrow | TD2 | 230,971 SF | TURF SEED DROUGHT TOLERANT DWARF FESCUE BLEND | SEED | |
| | TS | 79,815 SF | TURF SOD DROUGHT TOLERANT FESCUE BLEND | N/A | |
| 2055-21 088003 009-01 208-30 | | 5,170 SF | MISSOURI RAINBOW ROCK MULCH (1"-3") | | |
| | | | | | |

| | | | - | | 1: | | RAINTRI | EE VILLAGE PDP - LA | ANDSCAPE CA | LCULATIONS | 5 | 100 | | | |
|------------------------------|-------------------|-----------------------------------|-----------------------------|--|--------------------|---------|---|------------------------------|----------------------------------|---|---------------------------------------|----------------------------------|--|-----------------------|--|
| BUILDING COVERAGE (SF) | PARKING SPACES | LANDSCAPE ISLANDS AREA (SF) | PARKING LOT AREA (SF) | PARKING AREA LANDSCAPE ISLAND % (5% MIN.) | R/W LENGTH (LF) | 1 1 | (1) LANDSCAPE STRIP BETWEEN PARKING/LOADING AREA AND R/W | (1) STREET FRONTAGE TREES | (2) STREET FRONTAGE SHRUBS | (3) OPEN YARD AREA PROVIDED (SF) | (3A) OPEN YARD AREA TREES | (3B) OPEN YARD AREA SHRUBS | (4A) BUFFER TREES: DECIDUOUS / ORNAMENTAL / EVERGREEN | (4B) BUFFER SHRUBS | (5) PARKING LOT SCREENING SHRUBS |
| 149 439 | 137 | 6,015 | 73,049 | 8.23% | 1,190 | REQUIRE | 20' WIDE | 40 | 106 | 367,229 | 73 | 147 | 8/15/15 | 15 | 45 |
| 149,409 | 149,439 137 | | 75,045 | 0.2370 | 0.2070 | PROVIDE | 20' WIDE | 40 | 109 | 507,228 | 55 (18 WITH TO BE PLANTED IN PHASE 2) | 151 | 8/15/15 | 15 | 47 |

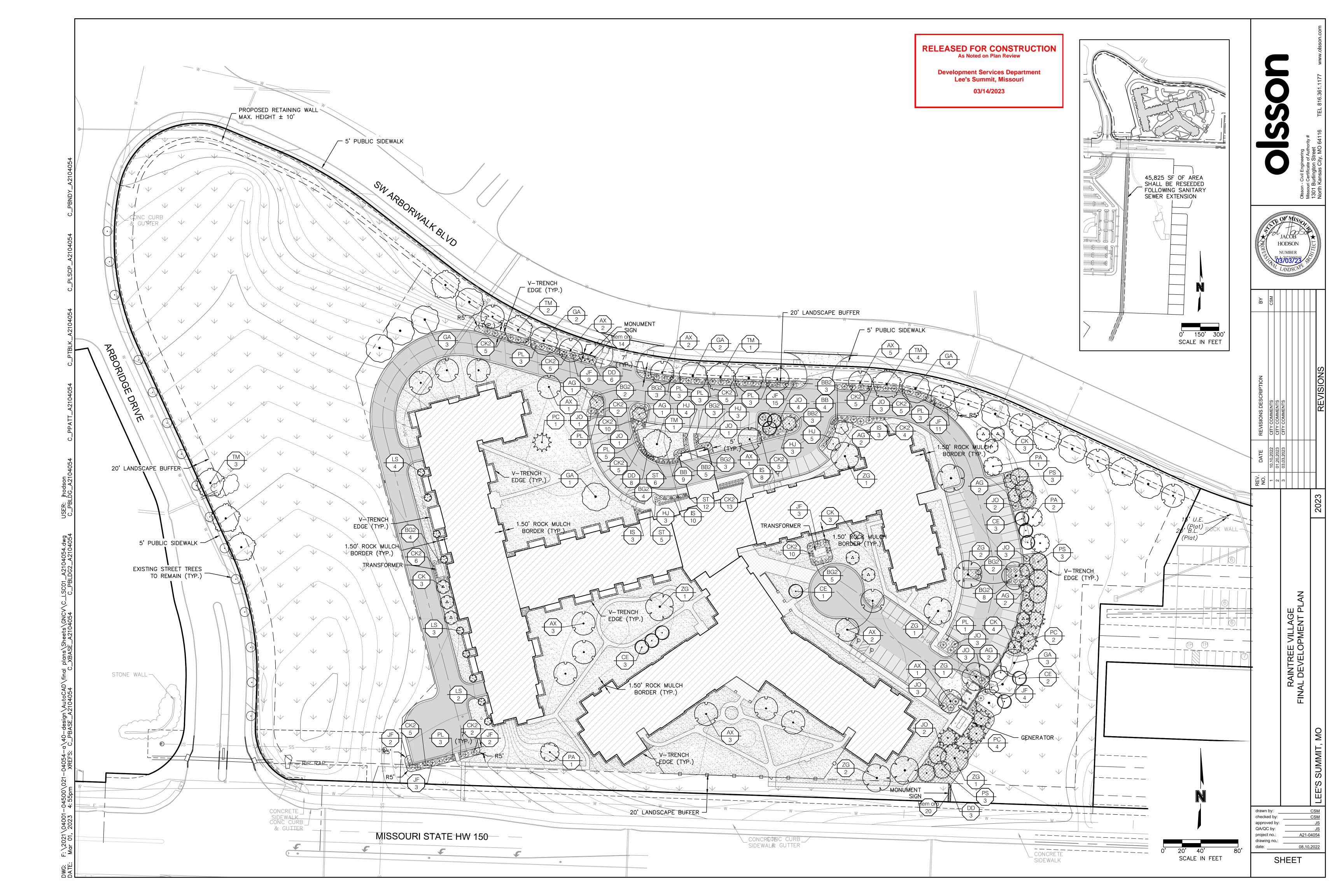
F. Material Test Reports: For standardized ASTM D5268 topsoil, existing native surface topsoil, existing in-place surface soil and imported or manufactured topsoil.

drawn by: checked by: approved by: QA/QC by: project no.: A21-04054 drawing no.: date: 08.10.2022

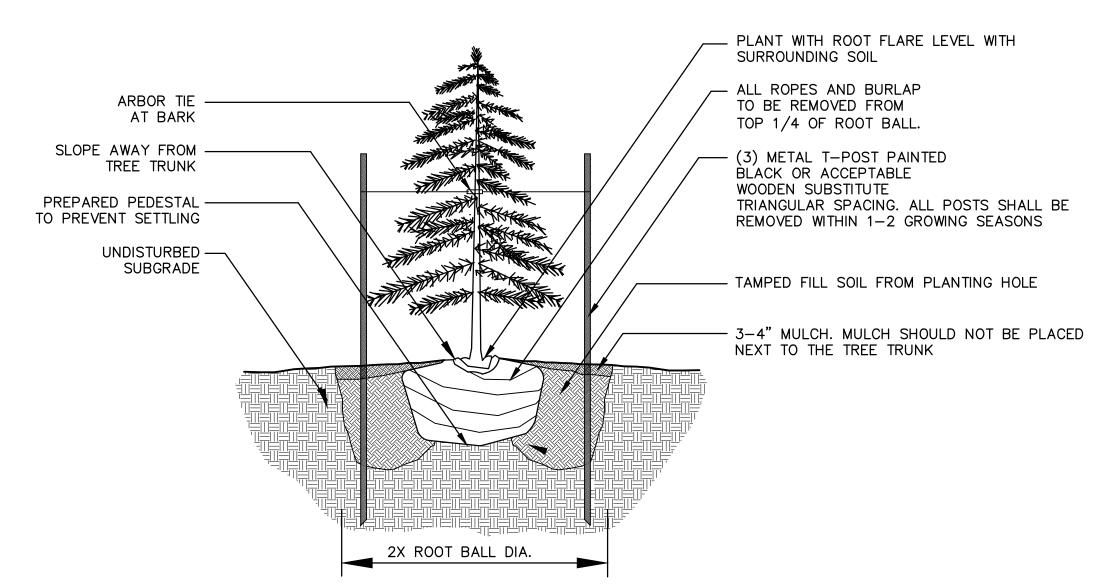
SHEET

| PARKING OF LOADING AREA LANDSCAPE STRIP SHALLL BE PLANTED WITH ONE (1) SHRUB FOR EV | | | RELEASED FOR CONSTR |
|--|--|--|--|
| DDITION TO STREET FRONTAGE TREES, ONE (1) TREE SHALL BE PROVIDED FOR EVERY 5,000 SF OF STAND AREAS SHALL BE LANDSCAPED WITH TWO (2) SHRUBS PER 5,000 SF OF TOTAL LOT AREA. | F OPEN YARD AREA | | As Noted on Plan Review |
| | 1,000 SF; 1 ORNAMENTAL TREE PER 500 SF; 1 EVERGREEN TREE PER 500; AND (4B) 1 SHRUB PER 500 SF | | Development Services Depa Lee's Summit, Missour |
| 1 - GENERAL | G. Maintenance Instructions: Recommended typewritten instructions and procedures to be established by the Owner for maintenance of plants during a calendar year. Submit before start of required maintenance periods and prior to final acceptance of landscape material. | G. Sod: Harvest, deliver, store, and handle sod according to requiren Turfgrass Sod Transplanting and Installation" in TPI's "Guideline Sr | 03/14/2023 The standard of th |
| PROJECT CONDITIONS Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings | H. Warranty: Sample of special warranty. | hours of harvesting. Protect sod from breakage and drying. | , |
| and construction contiguous with new plantings by field measurements before proceeding with planting work. | 1.3 QUALITY ASSURANCE | 1.5 WARRANTY | |
| Site Examination: Contractor shall verify all conditions, dimensions, and elevations in the field before starting work, and notify the project engineer or Landscape Architect immediately of any discrepancies between drawings and field conditions if encountered. | A. Installer Qualifications: A qualified landscape Installer whose work has resulted in successful establishment of plants. 1. Professional Membership: Installer shall be a member in good standing of either the Professional Landcare Network or the American | A. Special Warranty: Installer agrees to repair or replace plantings an warranty period. | d accessories that fail in materials, workmanship, or growth within spec |
| Interruption of Existing Services or Utilities: Do not interrupt services or utilities to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary services or utilities according to requirements indicated: | Nursery and Landscape Association. 2. Experience: A minimum of five (5) years experience on projects similar in characteristics and size. Contractor shall be a company | , | 25% die back and unsatisfactory growth as determined by the Owner's |
| Notify Landscape Architect no fewer than seven (7) days in advance of proposed interruption of each service or utility. Do not proceed with interruption of services or utilities without Landscape Architect's written permission. | specializing in landscape installation. 3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on project site when work is in progress. | Representative, except for defects resulting from abuse, beyond Contractor's control. | lack of adequate maintenance, or neglect by Owner, or incidents that ar |
| Site Conditions: | Personnel Certifications: Installer's field supervisor shall have certification in one of the following categories from the Professional Landcare Network: | b. Structural failures including plantings falling or blowing oc. Faulty performance of tree stabilization. | ver. |
| Contractor shall keep the premises clean and free from rubbish and all debris associated with the work at all times. All unused materials and debris shall be removed from the site. | a. Certified Landscape Technician - Exterior, with designated CLT-Exterior. | Warranty Periods from Date of Substantial Completion: a. Trees, Shrubs, Vines, and Ornamental Grasses: 12 mon | ths. |
| Contractor is responsible for repairs or damage to any existing improvements during construction such as but not limited to: drainage utilities, pavement, striping, curb, etc. Any repair work in the city R.O.W. shall be equal to or better than existing conditions. | b. Certified Ornamental Landscape Professional, designated COLP.5. Pesticide Applicator: State licensed, commercial. | b. Ground Covers, Biennials, Perennials, and Other Plants:c. Annuals: Two months. | |
| Contractor shall comply with specifications prior to commencement of any type of work. All disturbed areas outside of the project limits as shown on the plans are to be restored back to the original conditions with turf-type, tall | B. Soil Testing1. Laboratory Qualifications: An independent or university laboratory, recognized by the State Department of Agriculture, with the experience | Include the following remedial actions as a minimum: a. Immediately remove dead plants and replace unless requ | ized to plant in the augeociding planting access |
| fescue seed. Contractor shall not commence with work until the site is free of debris caused by ongoing construction operations. Removal of debris | and capability to conduct the testing indicated and that specializes in the types of tests to be performed. 2. The Contractor shall be responsible for having both the topsoil and existing soil tested for proposed plant material locations. Topsoil shall | | nealthy condition as judged by the Owner's Representative prior to |
| shall be the responsibility of the General Contractor. Contractor shall coordinate all work with other Contractors on site throughout the construction. Safety: | be tested by an independent soil testing agency. The Contractor shall furnish one (1) copy of the soil analysis plus recommended amendments prepared to meet the desired pH and nutritional and organic levels determined to be adequate for the area by the County Extension Agent or approved independent soil testing agency to the Landscape Architect prior to application of any amendments or | | except for losses or replacements due to failure to comply with require |
| Neither the Owner nor the Landscape Architect will enforce safety measures or regulations. The Contractor shall design, construct and maintain all safety devices, and shall be solely responsible for conforming to all local, state and federal safety and health standards, laws | fertilizer. C. Soil Analysis: For each unamended soil type, furnish soil analysis and a written report by a qualified soil testing laboratory stating percentages | MAINTENANCE SERVICE A. Installation Maintenance: | |
| and regulations. Itilities: | of organic matter; gradation of sand, silt, and clay content; cation exchange capacity; sodium absorption ratio; deleterious material; pH; and mineral and plant-nutrient content of the soil. | | plant, sod or turf. All plant material, sod and/or shall be maintained in accepted. |
| . Contractor shall take all necessary precautions and responsibility to locate and protect any and all public and private underground or concealed conduit, plumbing or other utilities where new work is being performed. Contractor is responsible for repairing any and all | Testing methods and written recommendations shall comply with USDA's Handbook No. 60. The soil testing laboratory shall oversee soil sampling with depth, location, and number of samples to be taken per instructions from | 2. Maintain turf, material and plants until Substantial Completion | or until Owner accepts landscape installation. |
| damage to utilities, structures, site appurtenances, etc., which occur as a result of the landscape construction. Contractor shall maintain stakes set by others until all parties concerned mutually agree upon removal. In no case shall landscape material be planted in a way | Landscape Architect. A minimum of three representative samples shall be taken from varied locations for each soil to be used or amended for planting purposes. | regrading and replanting as required to establish a smooth so | rtilizing, weeding, mowing, trimming, and other operations such as rolli dded surface, free of eroded or bare areas, free of weeds and acceptab |
| which will interfere with or cause damage to overhead or underground utilities. MISSOURI one call system: 1-800-344-7483 | 3. Report suitability of tested soil for plant growth.a. Based upon the test results, state the recommendations for soil treatments and soil amendments to be incorporated. State | · | nental grasses, perennials, annuals, and groundcover - include watering |
| equirements: | recommendations in weight per 1000 sq. ft. or volume per cubic yard for nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory planting soil suitable for healthy, viable plants. | restoration of the planting saucer, and any other procedures of | of dead materials, resetting plants to proper grades or upright positions consistent with good horticultural practices necessary to insure normal |
| All work shall conform to all federal, state, and local requirements for installation and maintenance. The final, approved landscape plan must be available for onsite inspection at all times. | b. Report presence of problem salts, minerals, or heavy metals including aluminum, arsenic, barium, cadmium, chromium, cobalt, lead, lithium, and vanadium. If such problem materials are present, provide additional recommendations for corrective action. | vigorous, and healthy growth. B. Initial Maintenance Service for Trees and Shrubs: Provide mainten | |
| learzone: The clearzone shall be maintained at all intersections that ingress and egges to the site. It is the Owner's responsibility to maintain the | D. Measurements: Measure according to ANSI Z60.1 - American Standard for Nursery Stock. Do not prune to obtain required sizes. 1. Trees and Shrubs: Measure with branches and trunks or canes in their normal position. Take height measurements from or near the top | Part 3. Begin maintenance immediately after plants are installed a for not less than the maintenance period below. | and continue until plantings are acceptably healthy and well established |
| The clearzone shall be maintained at all intersections that ingress and egress to the site. It is the Owner's responsibility to maintain the plant material at a height of not over thirty (30) inches above pavement and provide unobstructed sight distance for drivers in vehicles approaching the intersection. | of the root flare for field-grown stock and container-grown stock. Measure main body of tree or shrub for height and spread; do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size, and 12 | Maintenance Period: Twelve (12) months from date of Subst Initial Maintenance Service for Ground Cover and Other Plants: Preserved | · |
| Vertical clearance of at least eighty (80) inches must be provided above walks at all times. It is the Owner's responsibility to maintain trees and other overhanging objects to provide adequate headroom to comply with ADA guidelines. | inches above the root flare for larger sizes. 2. Other Plants: Measure with stems, petioles, and foliage in their normal position. | | e installed and continue until plantings are acceptably healthy and well |
| onflicts: | E. Quality and Size: | 1. Maintenance Period: Twelve (12) months from date of Subst | ' |
| Should a conflict arise between specifications, codes, standards, ordinances and plans, the most stringent requirements shall apply. Where no construction details are shown or noted for any part of the work, such details shall be the same as for similar work shown on | Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1 - American Standard for Nursery Stock. | D. Initial Maintenance Service for Turf: Provide full maintenance by s Begin maintenance immediately after each area is planted and con | killed employees of Landscape Installer. Maintain as required in Part 3 tinue until acceptable turf is established but for not less than the follow |
| the drawing and shall meet with Manufacturer's specifications. | Required plant materials shall conform to type stated on the plant list. Sizes shall be the minimum stated on the plant list or larger. All installation and measurements shall be in accordance with the latest editions of the American Standard for Nursery Stock (ANSI Z60.1) | periods: 1. Sodded Turf: Twelve (12) months from date of Substantial C | ompletion. |
| easurements: Before commencing work or ordering any materials, the Contractor shall verify all measurements and shall be responsible for their | and with the general planting specifications as set forth by the local municipal agency's landscape ordinance. 3. Landscape plant material shall satisfy AAN American Standards, be State Department of Agriculture inspected, and no. 1 grade with | E. Continuing Maintenance Proposal: From Installer to Owner, in the | form of a standard yearly (or other period) maintenance agreement, st bligations, conditions, and terms for agreement period and for future re |
| accuracy. Any discrepancies shall be reported to the project Landscape Architect. The Contractor shall be responsible for the differences between actual dimensions and measurements indicated. | straight, unscarred trunk and well developed uniform crown (park grade trees will not be accepted). 4. The plant material shall be nursery grown and inspected by the Owner's Representative before planting. | options. | singulation, contained by the terms of agreement period and for later of |
| Written dimensions shall prevail. In no case shall working dimensions be scaled from plans, sections or details on the drawing. Landscape Contractor shall supply bid to Olsson Associates for review. Bid shall include unit costs for all materials. | 5. Plants designated "b&b" shall be balled and burlapped, with firm balls of earth.6. All installed plant materials shall be certified by the State to be disease-free and pest-free and not of a species known to carry or be host | PART 2 - PRODUCTS | |
| an Changes: All drawings, specifications, and other work products developed by Olsson Associates are instruments of service for this project only and | to destructive pathogens or pests. Plants shall be healthy, vigorous stock, grown in a recognized nursery in accordance with good horticultural practices, free of disease, insects, eggs, larvae and defects such as knots, sun-scald, injuries, abrasions or disfigurement. | 2.1 PLANT MATERIAL | |
| shall remain the property of Olsson Associates. Instruments of service may not be used, reproduced or changed in any form without the prior written permission of Olsson Associates. | 7. All trees shall have a central leader and a radial branching structure.8. Plant materials delivered to site and not planted within 24 hours of delivery shall be "heeled" and watered in a shaded area, protected from | | ANSI Z60.1; and with healthy root systems developed by transplanting |
| In the event any changes are made to the plans and specifications by Owner or persons other than Olsson Associates, any liability arising out of such changes is waived against Olsson Associates. Owner assumes full responsibility for such changes unless Owner has given | weather, mechanical damage and dehydration prior to planting. 9. Each tree and shrub shall be securely labeled with a waterproof tag indicating the botanical name, common name, and size for delivery to | larvae, and defects such as knots, sun scald, injuries, abrasions, a | • |
| Olsson Associates prior notice and has received written consent for such changes. ubstitutions: | site. 10. Provide healthy, vigorous stock, grown in a recognized nursery in accordance with good horticultural practices, free of disease, insects, | | al branches where bark is squeezed between two branches or betweer nbs more than 3/4 inch in diameter; or with stem girdling roots will be |
| Any changes or deviations from these plans must be approved in writing by Owner, Olsson Associates and the Local Municipal Agencies. Changes shall possess the same characteristics as indicated on the plans and specifications. | eggs, larvae and defects such as knots, sun-scald, injuries, abrasions or disfigurement. Place all plants in shaded area, protected from weather, mechanical damage and dehydration prior to planting. | Collected Stock: Do not use plants harvested from the wild, f nursery unless otherwise indicated. Park Grade material is no | rom native stands, from an established landscape planting, or not grov |
| elegated design irrigation system: | 11. All plant surfaces shall receive emulsion type, film-forming anti-desiccant agent designed to permit transpiration, but retard excessive loss of moisture from plants. Anti-desiccant to be delivered in Manufacturer's fully identified containers and mixed in accordance with | B. Provide plants of sizes, grades, and ball or container sizes comply | ing with ANSI Z60.1 for types and form of plants required. Plants of a |
| If an irrigation system is not provided with the Landscape Plans, the Contractor is to design a 100 percent coverage irrigation system, including comprehensive engineering analysis by a qualified Professional Engineer, using performance requirements and design criteria | Manufacturer's specifications. F. Plant Material Observation: Landscape Architect may observe plant material either at place of growth or at site before planting for compliance | size may be used if acceptable to Landscape Architect, with a proposition. C. Root Ball Depth: Furnish trees and shrubs with root balls measure | |
| indicated per Owner's direction. Irrigation Contractor to design and install irrigation system and shall include all required components including, but not limited to, rain shut | with requirements for genus, species, variety, cultivar, size, and quality. Landscape Architect retains right to observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and to reject unsatisfactory or defective | ANSI Z60.1. Root flare shall be visible before planting. | |
| off sensor, controller, taps, backflow preventers, all approvals, and all fees required by city. Irrigation Contractor shall submit a copy of plan to Owner's Representative or Project Landscape Architect for review prior to installation of | material at any time during progress of work. Remove rejected trees or shrubs immediately from project site. 1. Notify Landscape Architect of sources of planting materials seven (7) days in advance of delivery to site. | · · · · · · · · · · · · · · · · · · · | securely attached, waterproof tag bearing legible designation of comm de nomenclature for hybrid, variety, or cultivar, if applicable for the plar |
| system. Irrigation Contractor shall conduct a training session with the owner (or representatives) demonstrating the operation of the system and | Inspections and Testing: The Landscape Architect reserves the right to inspect and/or tag plants at place of growth with Landscape Contractor. | shown on Drawings. E. If formal arrangements or consecutive order of plants is shown on | Drawings, select stock for uniform height and spread, and number the |
| the controller. As part of this training, Contractor shall provide one spring start-up and one fall shut-down of the system. Landscape Contractor to provide cost estimates for irrigation system for all plant material indicated on plans. | b. All plants must be inspected and approved by the Landscape Architect before they are planted. Inspection and approval by the Landscape Architect at place of growth or upon delivery shall be for quality, size, and variety only and shall not in any way impair the | labels to assure symmetry in planting. | |
| Irrigation system shall be tested and approved by Owner's Representative or Landscape Architect prior to backfilling trenches. Irrigation system shall be fully operational prior to the installation of any plant materials. | right of rejection for failure to meet other requirements during progress of work. Plants damaged during delivery or at job site shall be rejected. | the container to maintain a firm ball, but not with excessive root gr | iety shown or listed, with well-established root systems reaching to si- owth encircling the container. Provide only plants that are acclimated |
| All planting beds shall be watered by drip and micro mist irrigation system. General Contractor to supply all power required to operate irrigation system. | 3. All site work, including plant locations, shall be staked by the Landscape Contractor and shall be approved by the Landscape Architect prior to installation. Any walks, walls or edging shall be installed in a manner consistent with the plans as shown, and shall be installed | outdoor conditions before delivery. | |
| Irrigation Contractor shall notify Owner's Representative or Project Landscape Architect of any changes to irrigation conduit locations or sizes. | free of kinks, bends or abrupt curves. 4. All dead plant materials shall be removed and replaced as required in order to maintain an attractive landscape at all times. | 2.2 NATIVE SEEDA. All disturbed areas, fills and embankments shall be seeded and fer | tilized as specified on the plans. |
| I. It is the Landscape Contractor's responsibility to determine water application rates and timer cycling. The Irrigation Contractor will instruct the Owner on the operation and programming of the controller. | G. Quantities: | B. Native seed shall be obtained from sources specified on plans or a | · |
| All zones and main lines will be pressure-tested at the time of installation and again prior to building turnover. Results shall be submitted in writing to Project Landscape Architect and Owner or Owner's Representative. | Contractor is responsible for verifying all quantities shown on these plans before pricing the work. Any difference in quantities should be brought to the attention of the Landscape Architect for clarification. | 2.3 TURF SEED | |
| 2. Irrigation shall not spray on building, sidewalks, and drives. 3. Irrigation controller location shall be coordinated with other wall-mounted service panels per Owner's approval. | 2. Quantities listed in the plant list schedule are for estimates only. Trees, shrubs, and groundcover of contract quantities shall be the number of items shown on the drawings. Contractor shall supply the quantities necessary to complete the work as shown on the | A. All disturbed areas, fills and embankments shall be seeded and fer | ' ' |
| Landscape Contractor shall hand-water all trees, turf grass areas, and native seed mix areas until substantial completion. | drawings. Quantities listed on the plant list are approximate only. Any difference in quantities should be brought to the attention of the Project Landscape Architect for clarification. | B. Grass seed shall have a rating of 6.0 or better in the Kansas State 1.75% | ינוניו נומאט ופאן, אינויו נוופ זסווסאוחק cnaracteristics: Purity - 98%, and I |
| 5. Treegator bags (or approved equal) shall be used for all proposed trees on site. | 3. Contractor shall provide trees, shrubs, and plants of quantity, size, genus, species and variety shown and scheduled for landscape work.H. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required | 2.4 TURF SOD | |
| UBMITTALS ualification Data for qualified Landscape Installers: Include list of similar projects completed by Landscape Contractor demonstrating | maintenance from date of Substantial Completion. 1. Spring Planting: April 1st to June 15th | A. Sod shall be grown from a seed with a rating of 6.0 or better in the | |
| ndscape Contractor's capabilities and experience. Include project names, addresses, and year completed, and include names and dresses of Owners' contact persons. | 2. Fall Planting: August 15th to November 1st | Sod shall be composed of fescue blend free from insects, disease per strip or approved equal. | , weeds and other grasses, out in uniform strips consisting of 1 square |
| amples shall be approved by Landscape Architect prior to installation on project. | I. Weather Limitations: Proceed with plant material installation and sodding only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to | 2.5 PLANTING SOILS | |
| oduct Data: Provide for each type of product indicated, including soils. Plant Materials: Include quantities, sizes, quality, and sources for plant materials. | Manufacturer's written instructions and warranty requirements. J. Coordination with Turf Areas (Lawns): Plant trees, shrubs, and other plants after finish grades are established and before planting turf areas | Soil Testing: Landscape Contractor to test soil on site and provide results t | o the Owner and Landscape Architect prior to commencement of work |
| Pesticides and Herbicides: Include product label and Manufacturer's application instructions specific to the Project. Plant Photographs: Include color photographs in digital format of each required species and size of plant material as it will be furnished to | unless otherwise indicated. 1. When planting trees, shrubs, and other plants after planting turf areas, protect turf areas, and promptly repair damage caused by planting | Landscape Contractor to verify and guarantee that the onsite to the commend soil amendments if soil amendment if soil | opsoil will support grass seed, sod, and plant material. |
| the Project. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each photograph. For species where more than 20 plants are required, include a minimum of three | operations. | B. Planting Soil: | · |
| photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery. | 1.4 DELIVERY, STORAGE, AND HANDLING A Packaged Materials: Deliver packaged materials in original unpopened containers showing weight, certified analysis, name and address of | clods, clay lumps, pockets of coarse sand, concrete slurry, c | face soil to produce viable planting soil. Remove stones, roots, plants oncrete layers or chunks, cement, plaster, building debris, and other |
| amples for Verification: Provide as listed for each of the following: Trees and Shrubs: Three samples of each variety and size must be delivered to the site for review. Maintain approved samples on-site as | A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of Manufacturer, and indication of conformance with state and federal laws if applicable. | | of five (5) percent organic material content; free of stones 1 inch or lar |
| a standard for comparison. | B. Bulk Materials:Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants. | and other foreign materials. Mix ASTM D5268 topsoil with the | it growth. Soil shall be free from clay lumps, coarse sand, plant roots, ne following soil amendments and fertilizers as recommended by soil |
| Hardwood Mulch, Leaf Compost Mulch, & Rock Mulch: 1-quart volume of each organic mulch, in sealed plastic bags labeled with composition of materials by percentage weight and source of mulch, is required. Each Sample shall be typical of the lot of material to be furnished; provide an accurate representation of color, texture, and organic makeup. | Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways. | | cality, obtained from well-drained areas possessing characteristics of |
| turnished; provide an accurate representation of color, texture, and organic makeup. Weed Control Barrier: 12 by 12 inches. | 3. Accompany each delivery of bulk fertilizers, lime, and soil amendments with appropriate certificates. | admixture of subsoil or slag and shall be free of subsoil, stone | egetative material. Stockpiled topsoil may be used. It shall be without es, lumps, sticks, plants or their roots, toxic substances or other extran |
| roduct Certificates: Each type of manufactured product, from Manufacturer, shall comply with the following: . Manufacturer's certified analysis of standard products. | C. Deliver bare-root stock plants freshly dug. Immediately after digging up bare-root stock, pack root system in wet straw, hay, or other suitable material to keep root system moist until planting. | matter that may be harmful to plant growth. 2.6 MULCHES | |
| All plant material inspection certificates required by federal, state or other governing authorities will accompany each shipment and be turned over to the Owner's Representative upon delivery. | D. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. | A. Hardwood Mulch: Free from deleterious materials and suitable as a 1. Type: Double-shredded hardwood | a top dressing for trees and shrubs, consisting of the following: |
| Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable. | Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling. | 2. Size Range: $\frac{1}{2}$ inch minimum to 3 inches maximum | |
| Invoice: a. Vendor or Grower's invoice for each shipment of plants shall show sizes, quantities, and root treatment of plants, i.e. containerized, | E. Handle planting stock by root ball.F. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after | Color: Dark brown Leaf Compost Mulch: Free from deleterious materials and suitable | as a top dressing for ornamental grasses, perennials, and groundcover |
| vendor or Grower's invoice for each shipment of plants shall show sizes, quantities, and root treatment of plants, i.e. containerized, balled and burlapped, or plug. Invoice for each shipment of soil amendments and seed mixtures. | delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist. | C. Mineral Mulch: Hard, durable stone, washed free of loam, sand, cl | |
| Label data substantiating that plants, trees, shrubs, perennials, seed and planting materials comply with specifications. | Heel-in bare-root stock. Soak roots that are in dry condition in water for two hours. Reject dried-out plants. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material. | Type: Washed Cobble Size Range: 8-inch maximum, 4-inch minimum | |
| Seed Vendor's certified statement for each seed mixture required stating botanical and common name, percentages by weight, and percentages of purity, germination, and weed seed for each seed mixture. | Do not remove container-grown stock from containers before time of planting. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root | 3. Color: Uniform tan-beige color range acceptable to Landscape | e Architect |
| Material Test Reports: For standardized ASTM D5268 topsoil, existing native surface topsoil, existing in-place surface soil and imported or | 4. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly-wet condition. | | |

systems in a moist, but not overly-wet condition.

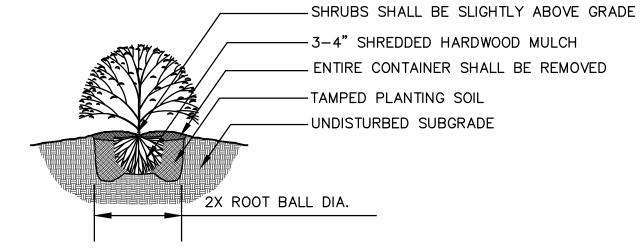


Development Services Department Lee's Summit, Missouri 03/14/2023



NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

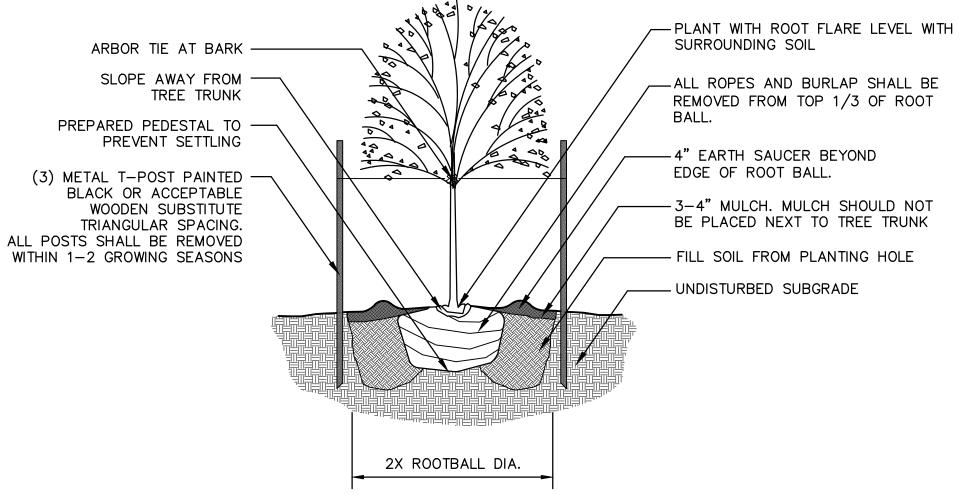
1 Evergreen Tree Planting Detail



NOTES:

- 1. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH ANLA STANDARDS
- PRUNE DAMAGED LIMBS OR ROOTS AFTER INSTALLATION
 MAKE SURE ROOTS DO NOT DRY OUT DURING INSTALLATION
- 4. SOAK GENEROUSLY TO COMPACT AND SETTLE

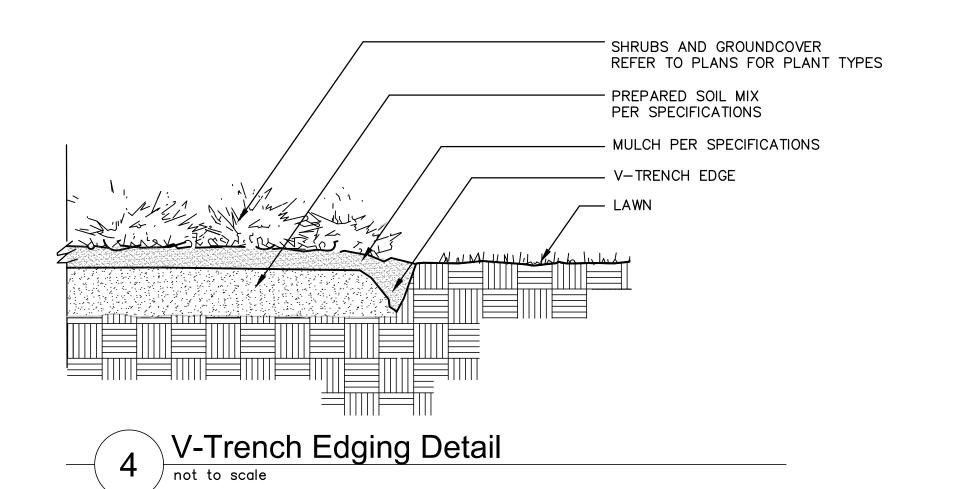




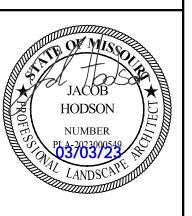
NOTES:

DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
 IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

Deciduous Tree Planting Detail



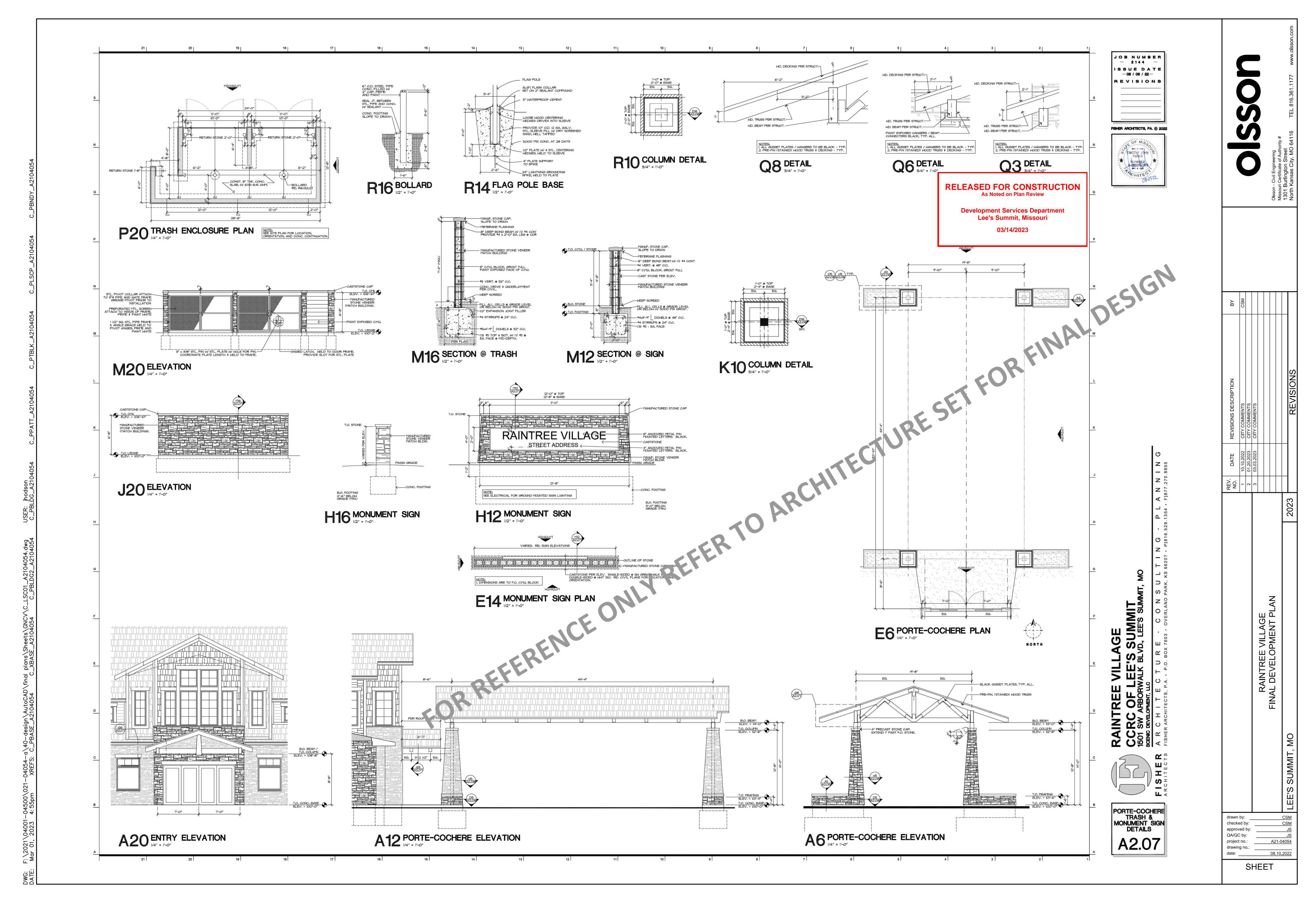
Civil Engineering
Certificate of Authority #

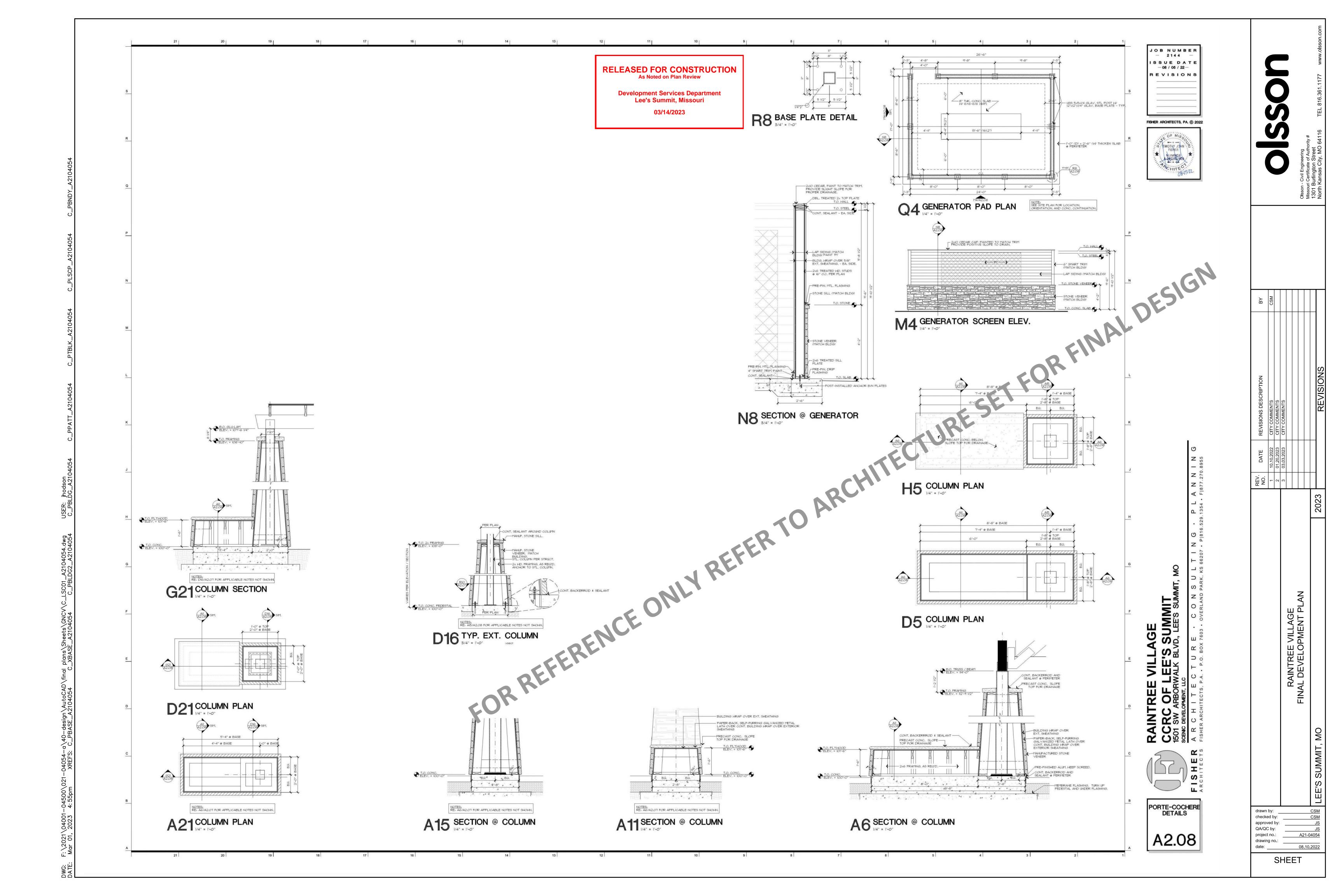


| | REVISIONS | | 2023 | S SUMMIT, MO |
|-----|-----------------------|------------|--------|------------------------|
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| | | | | FINAL DEVELOPMENI PLAN |
| | | | | |
| NDS | | | | RAINTREE VII I AGE |
| | CITY COMMENTS | 03.03.2023 | 3 | |
| | CITY COMMENTS | 01.20.2023 | 2 | |
| CSM | CITY COMMENTS | 10.10.2022 | 1 | |
| 10 | REVISIONS DESCRIPTION | חאם | Ö N | |

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.:

SHEET







RAINTREE VILLAGE

LEE'S SUMMIT, MO





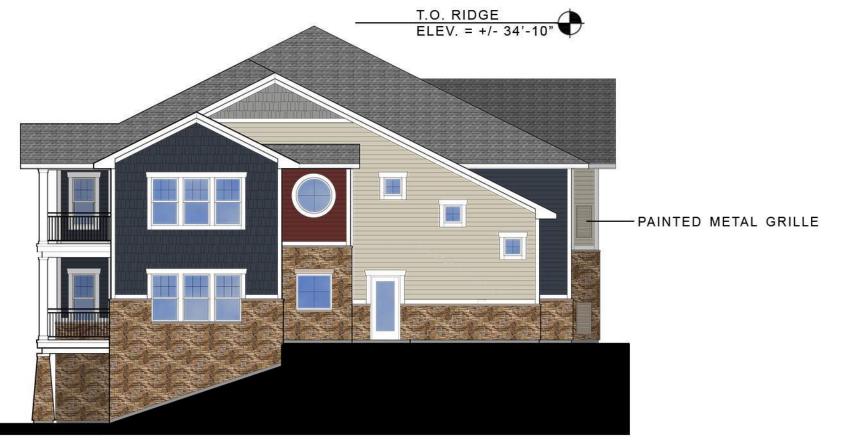
NORTH ELEVATION - ALU WING



MANUF. STONE VENEER

RELEASED FOR CONSTRUCTION As Noted on Plan Review

> **Development Services Department** Lee's Summit, Missouri 03/14/2023



SOUTH ELEVATION - ILU WING





WEST ELEVATION - ILU WING

ALUMINUM GUARDRAIL - BLACK

STAINED EXPOSED WOOD

PAINTED METAL GRILLE

RAINTREE VILLAGE

WEST ELEVATION - ALU WING

Lee's Summit, MO



EXTERIOR MATERIALS

EXTERIOR COLORS

SW7036: Accessible Beige

SW2739: CHARCOAL BLUE

SW7669: SUMMIT GRAY

SW2802: ROCKWOOD RED

SW7005: PURE WHITE





WEST COURTYARD ELEVATION - SNF WING

RAINTREE VILLAGE

LEE'S SUMMIT, MO



EXTERIOR MATERIALS

- MANUF. SHINGLE SIDING

- MANUF. STONE VENEER

- STAINED EXPOSED WOOD

EXTERIOR COLORS

SW2739: CHARCOAL BLUE

SW7669: SUMMIT GRAY

SW2802: ROCKWOOD RED

SW7005: Pure White

SW7036: Accessible Beige

- MANUF. LAP SIDING

- ASPHALT SHINGLES

- VINYL WINDOWS

- MANUF. TRIM



RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Loo's Summit Missouri

Lee's Summit, Missouri
03/14/2023



TYPICAL REAR ELEVATION - MEMORY CARE BUILDING



TYPICAL SIDE ELEVATION - MEMORY CARE BUILDING



MANUF. SHINGLE SIDING
MANUF. TRIM

CLUBHOUSE EAST ELEVATION

MANUF. STONE VENEER
MANUF. LAP SIDING

CLUBHOUSE NORTH ELEVATION

RAINTREE VILLAGE

LEE'S SUMMIT, MO



EXTERIOR MATERIALS

- MANUF. SHINGLE SIDING

- MANUF. STONE VENEER

- STAINED EXPOSED WOOD

- MANUF. LAP SIDING

- ASPHALT SHINGLES

- VINYL WINDOWS

- MANUF. TRIM



